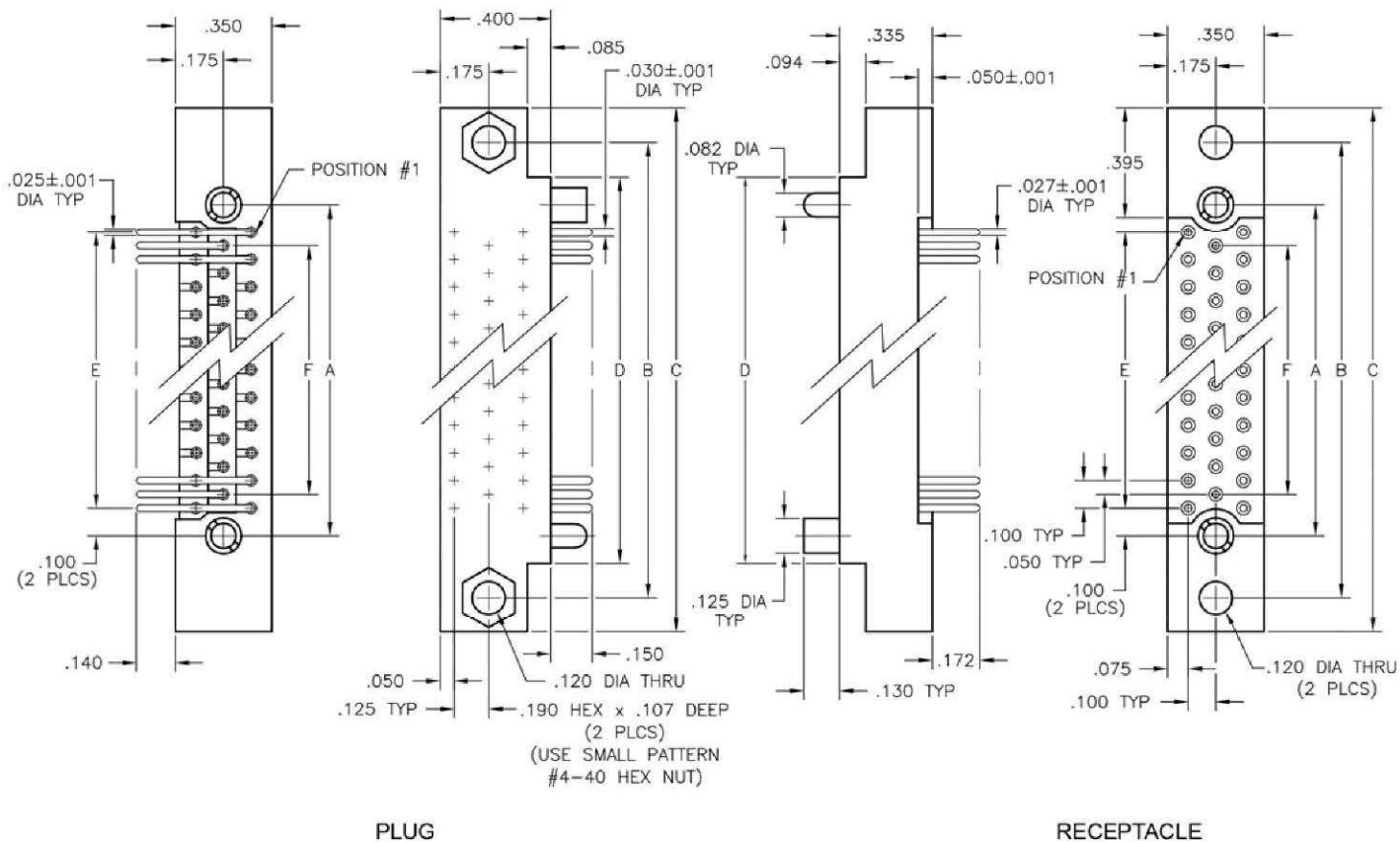
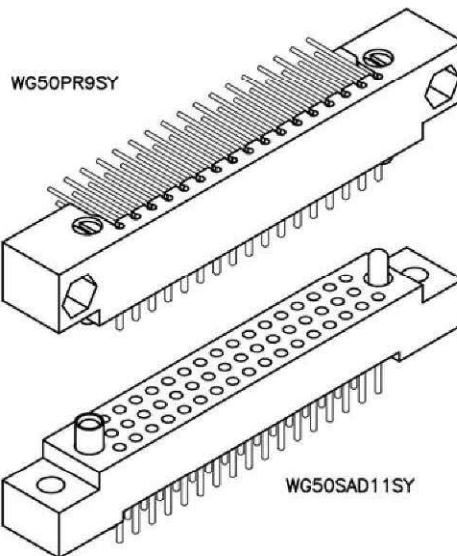


3 · ROW **PC Card to** **Board or Chassis**

.100"

WG - WG

50 thru 104 Contacts



DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300

PLUG: WG 50 PR9 SY
RECEPTACLE: WG 50 SAD11 SY
XX XX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WG	Plug, right angle, with mounting ears
WG	Receptacle, straight, with mounting ears
WG	Receptacle, right angle, with mounting ears

SIZE	
XX	Number of contacts (50, 62, 80, 92, or 104)
XX	Number of contacts (50, 62, 80, 92, or 104)

CONTACTS	
----------	--

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

TYPE CONTACTS/TERMINATIONS:

PR7	Pin, right angle, dip solder, .109" x .025" dia
PR9	Pin, right angle, dip solder, .140" x .025" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia
PR15	Pin, right angle, dip solder, .234" x .025" dia
PRW34	Pin, right angle, wire wrap®, .531"
PRW42	Pin, right angle, wire wrap®, .656"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination .150", connector saver
SAW24	Socket, straight, wire wrap®, .375"
SAW40	Socket, straight, wire wrap®, .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

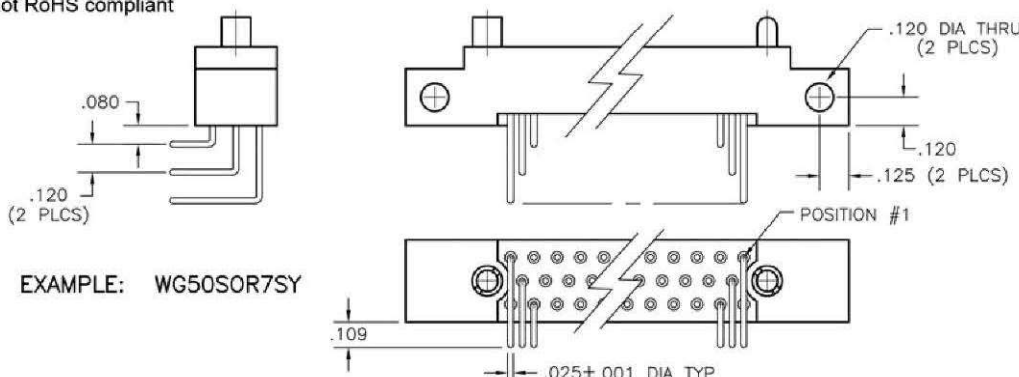
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WG50PR9QJ.
See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .435"	J	Fixed jackset
JTA	Turning jackset, .135"	JL	Fixed jackset, long
JTB	Hex turning jackset, .135"		
JTC	Hex turning jackset, .435"		
JTL	Turning jackset, long, .635"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WG80PR9SY342. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant



3 • ROW

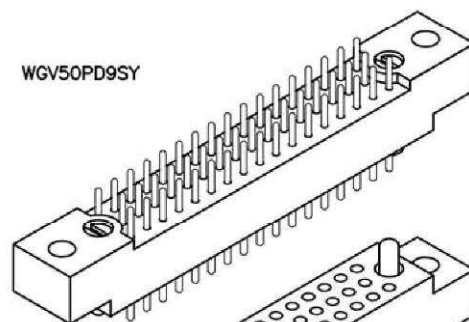
Sandwich Boards

.100"

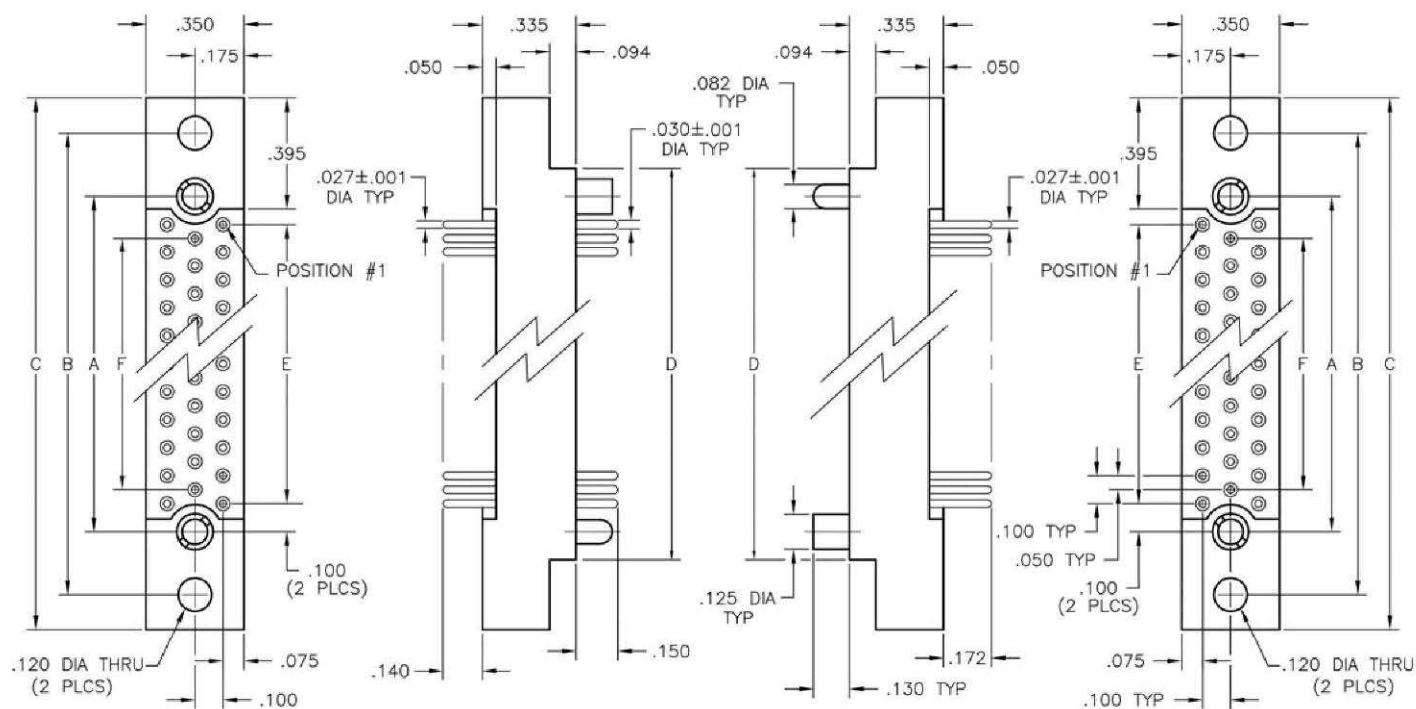
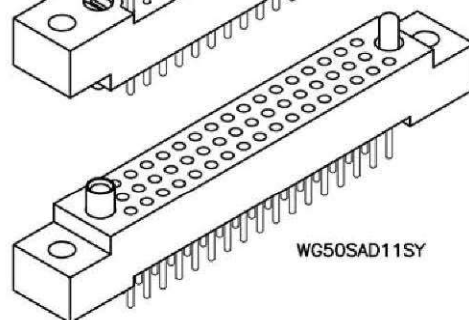
WGV - WG

50 thru 104 Contacts

WGV50PD9SY



WG50SAD11SY



PLUG

RECEPTACLE

DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300

PLUG: WGV 50 PD9 SY
 RECEPTACLE: WG 50 SAD11 SY
 XXX XX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WGV Plug, with mounting ears	WG Receptacle, straight, with mounting ears
	WG Receptacle, right angle, with mounting ears

SIZE	
XX Number of contacts (50, 62, 80, 92, or 104)	XX Number of contacts (50, 62, 80, 92, or 104)

CONTACTS	
----------	--

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC	Pin, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia
PF3	Pin, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"
PF8	Pin, straight, flex circuit, .125"
PW34	Pin, straight, wire wrap®, .531"
PW40	Pin, straight, wire wrap®, .625"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination .150", connector saver
SAW24	Socket, straight, wire wrap®, .375"
SAW40	Socket, straight, wire wrap®, .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE	
----------	--

- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WGV50PD9QJ.
 See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JT	Turning jackset, .500"	JT	Turning jackset, .500"
JTA	Turning jackset, .200"	JTA	Turning jackset, .200"
JTB	Hex turning jackset, .200"	JTB	Hex turning jackset, .200"
JTC	Turning jackset, .500"	JTC	Turning jackset, .500"
JTL	Turning jackset, long, .700"	JTL	Turning jackset, long, .700"

OPTIONS	
---------	--

- Option Codes: Add to the end of the part number. Example: WG80PR9SY342. Call factory for additional codes.
 - 342 Remove mounting ears. (.250" each end)
 - D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
 - G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- ☒ = Option not RoHS compliant



3 · ROW **PC Card to** **Board or PC Card**

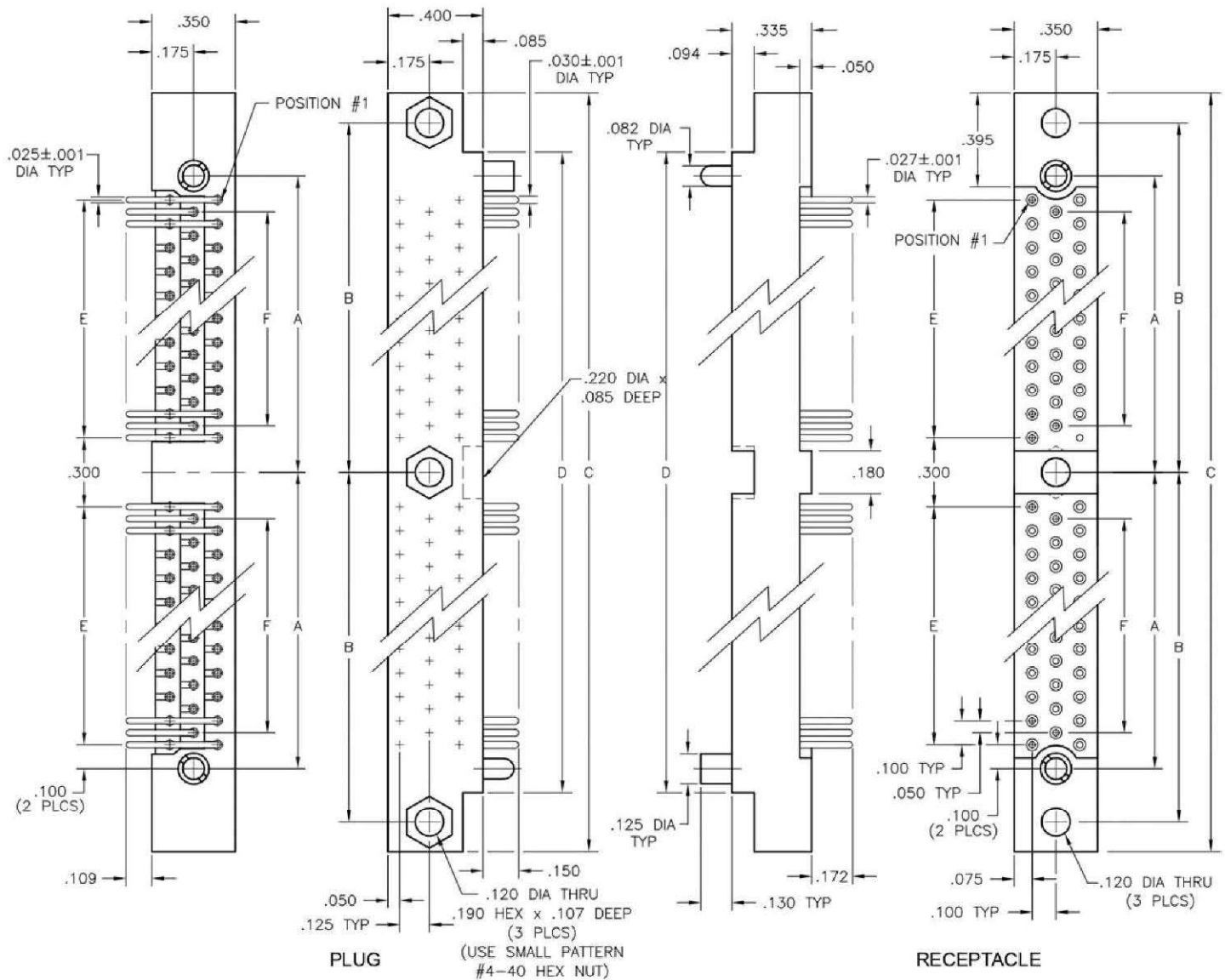
.100"

WG - WG

160 & 208 Contacts

WG160PR7SY

WG160SAD11SY



DIMENSIONS						
SIZE	A	B	C	D	E	F
160	2.850	3.075	6.400	5.900	2.600	2.500
208	3.650	3.875	8.000	7.500	3.400	3.300

PLUG: WG 160 PR7 SY
 RECEPTACLE: WG 160 SAD11 SY
 XX XXX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WG	Plug, right angle, with mounting ears
WG	Receptacle, straight, with mounting ears
WG	Receptacle, right angle, with mounting ears
SIZE	
XX	Number of contacts (160 or 208)
XX	Number of contacts (160 or 208)

CONTACTS

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

TYPE CONTACTS/TERMINATIONS:	
PR7	Pin, right angle, dip solder, .109" x .025" dia
PR9	Pin, right angle, dip solder, .140" x .025" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia

TYPE CONTACTS/TERMINATIONS:	
SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination .150", connector saver
SAW24	Socket, straight, wire wrap [®] , .375"
SAW40	Socket, straight, wire wrap [®] , .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

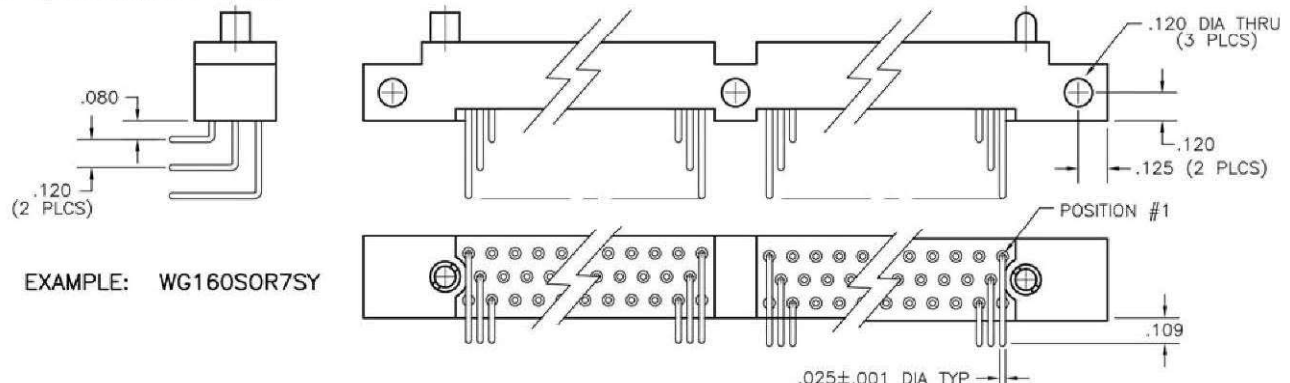
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WG160PR9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .435"	J	Fixed jackset
JTA	Turning jackset, .135"	JL	Fixed jackset, long
JTB	Hex turning jackset, .135"		
JTC	Hex turning jackset, .435"		
JTL	Turning jackset, long, .635"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WG160PR9SY548. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant



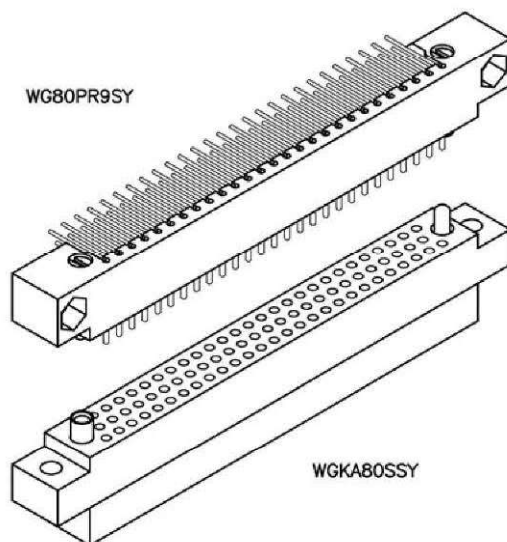
3 • ROW PC Card to Chassis

.100"

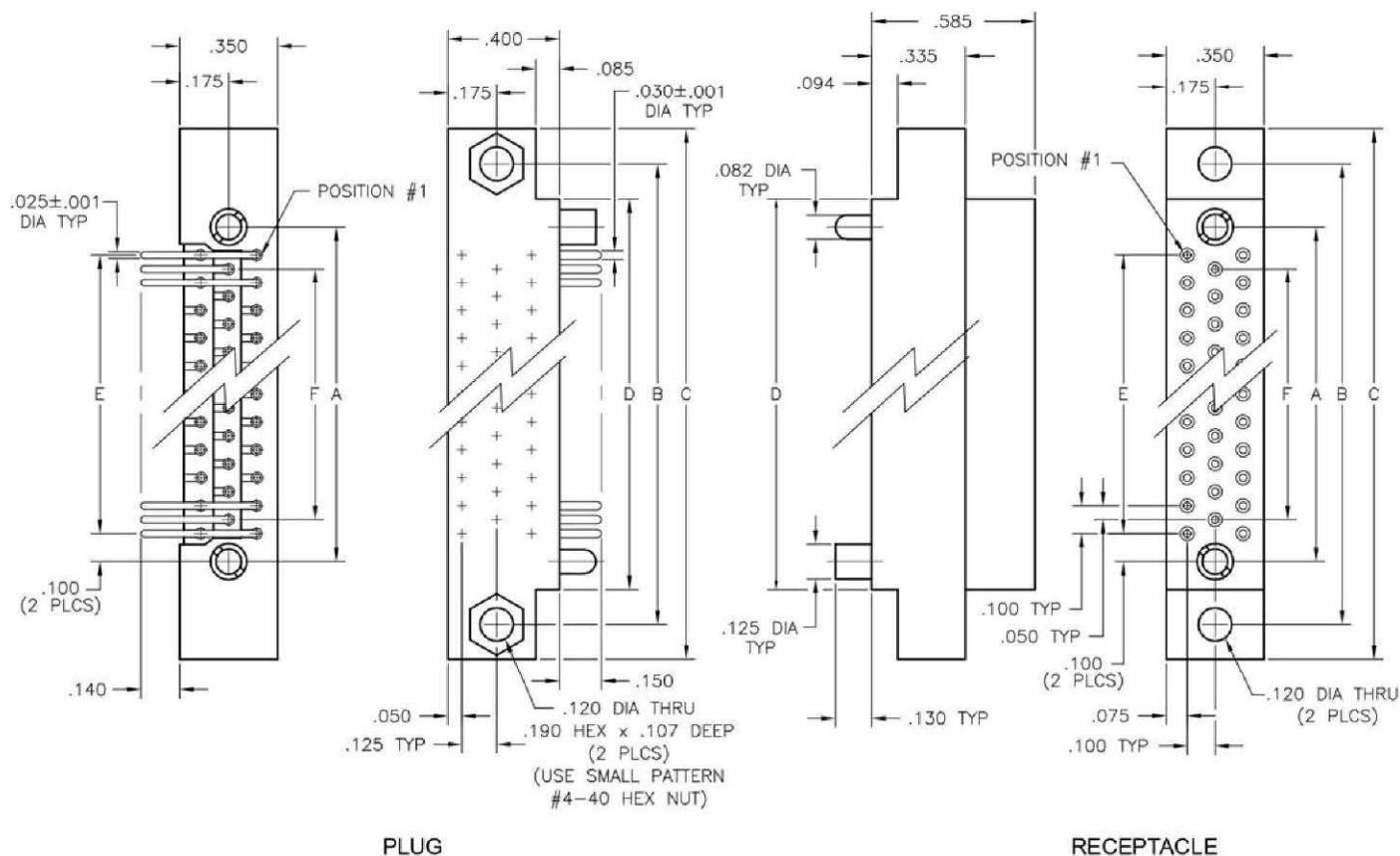
WG - WGKA

50 thru 160

WG80PR9SY



WGKA80SSY



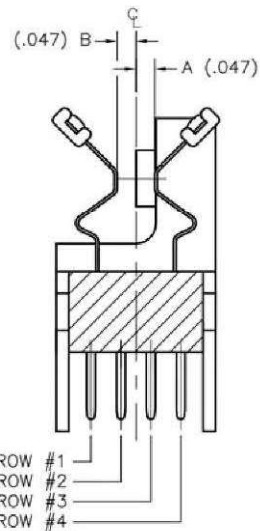
PLUG

RECEPTACLE

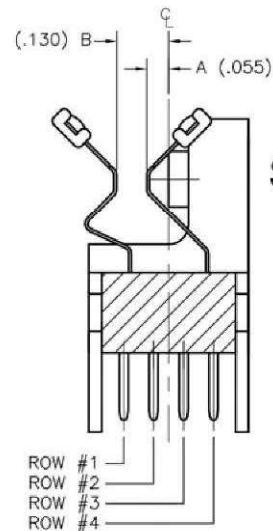
DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300
160*	2.850	3.075	6.400	5.900	2.600	2.500

* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION

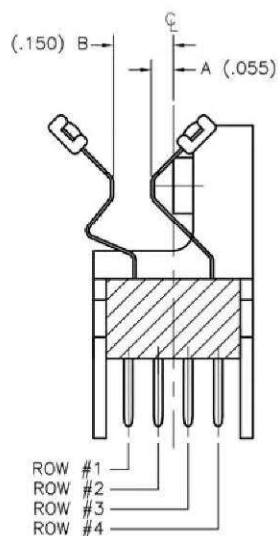
SMT Configuration Options



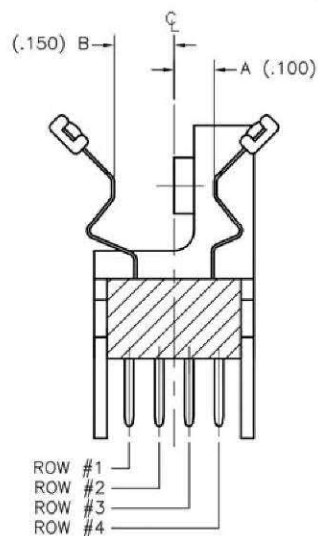
STYLE 933



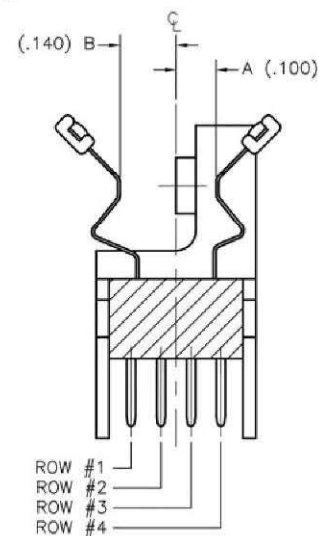
STYLE 925



STYLE 927



STYLE 947



STYLE 946

DISTANCE FROM Q (A)

1 .005
2 .055

DISTANCE FROM Q (A OR B)

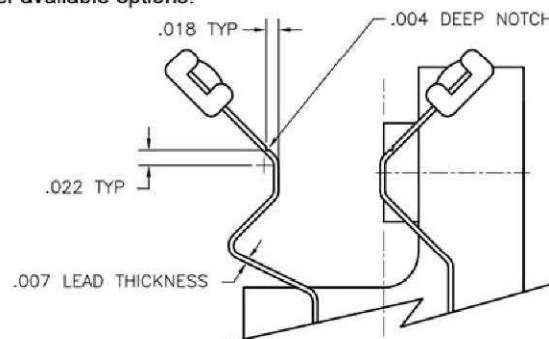
3 .047 7 .150
4 .100 8 .070
5 .130 9 .080
6 .140

DISTANCE FROM Q (B)

0 .090

NOTES:

1. Various board thicknesses can be accommodated by specifying A and B designators. For example: 9 (A)(B)
2. Consult factory for other available options.



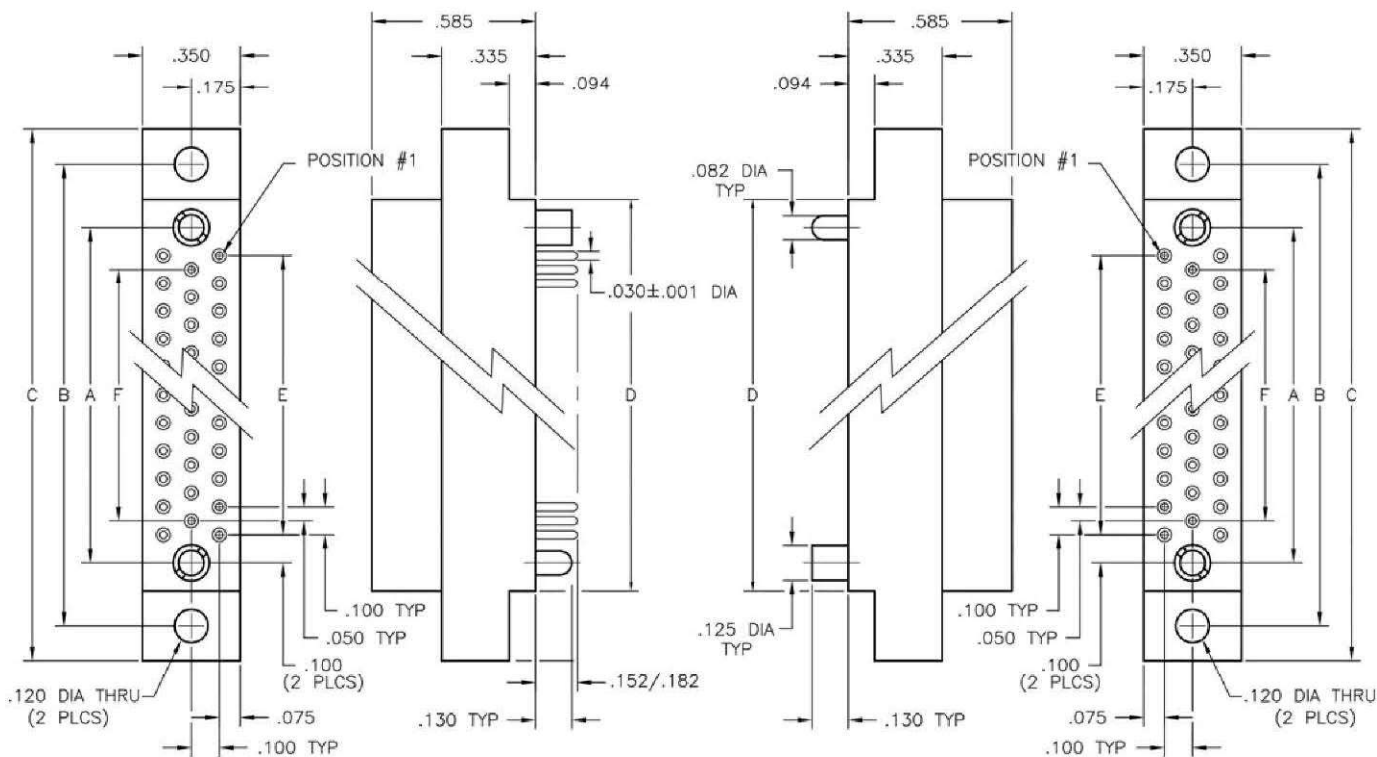
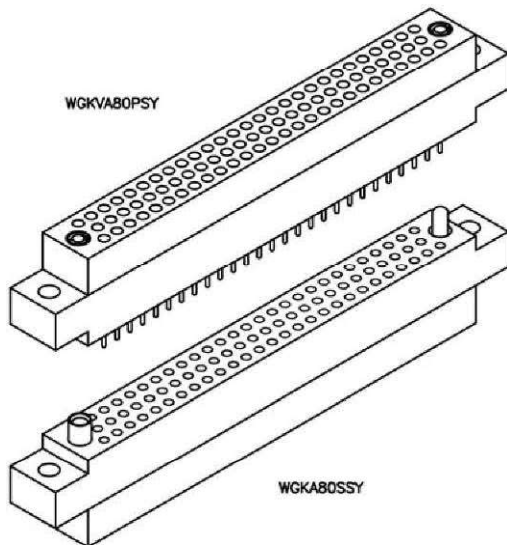
CONTACT NOTCH DETAIL

3 • ROW Chassis to Chassis

.100"

WGKVA - WGKA

50 thru 160



PLUG

RECEPTACLE

DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300
160*	2.850	3.075	6.400	5.900	2.600	2.500

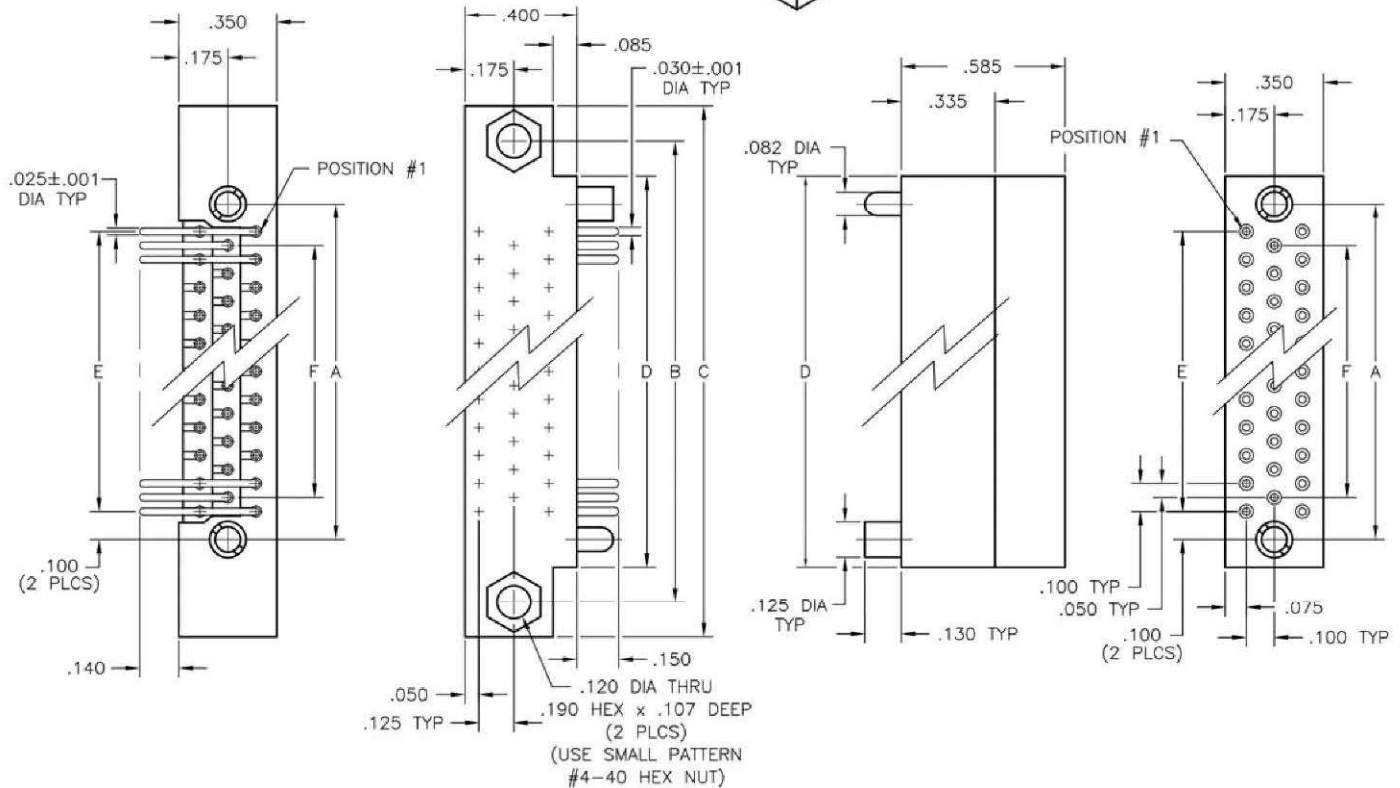
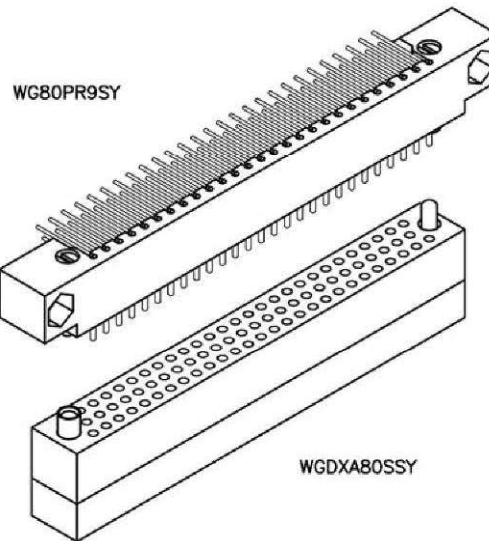
* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION

3 • ROW PC Card to Chassis

.100"

WG - WGDXA

50 thru 160



PLUG

RECEPTACLE

DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300
160*	2.850	3.075	6.400	5.900	2.600	2.500

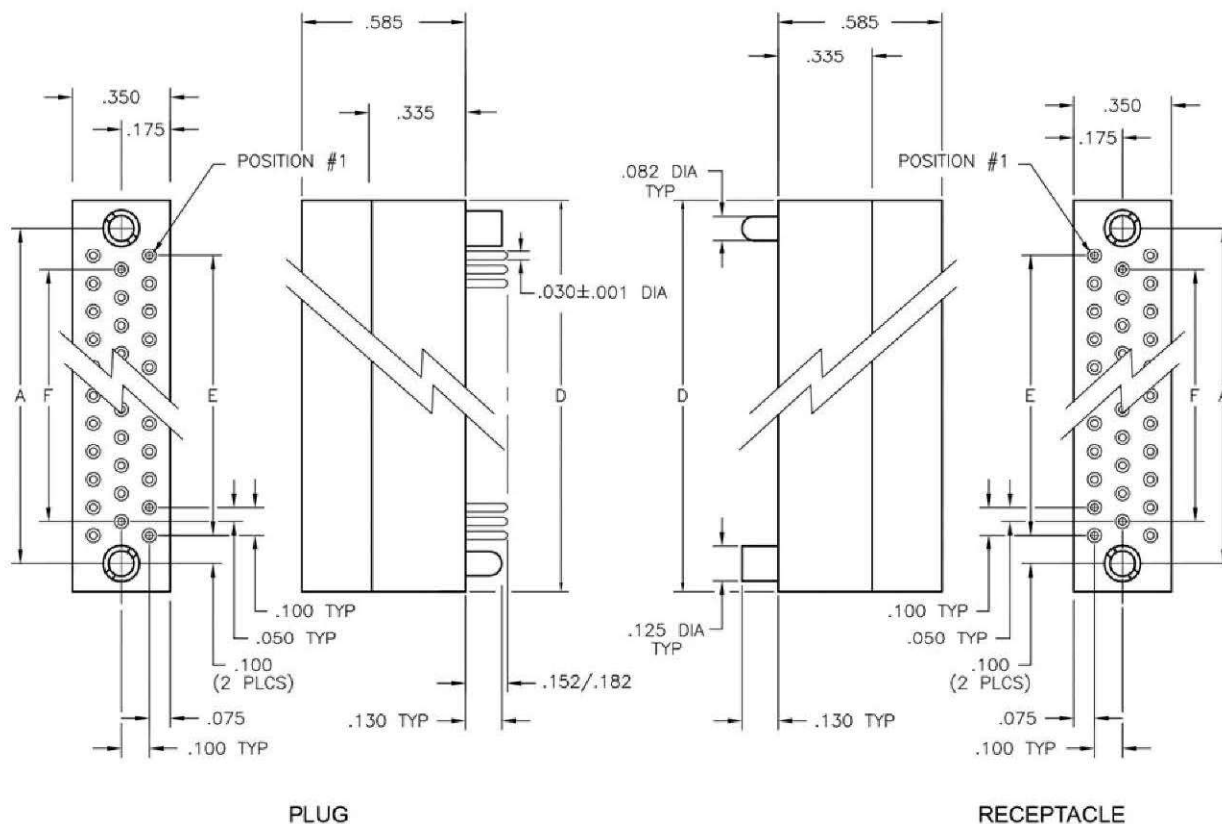
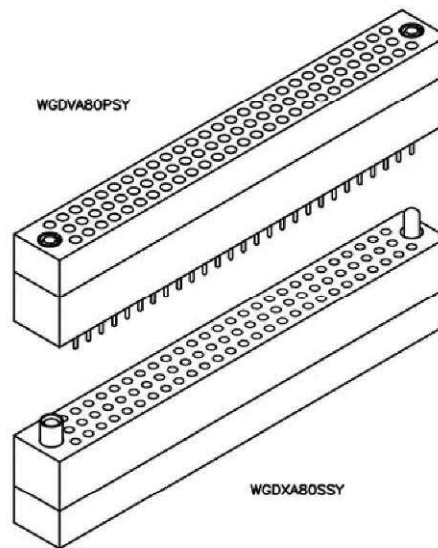
* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION

3 • ROW Chassis to Chassis

.100"

WGDVA - WGDXA

50 thru 160



DIMENSIONS				
SIZE	A	D	E	F
50	1.800	2.000	1.600	1.500
62	2.200	2.400	2.000	1.900
80	2.800	3.000	2.600	2.500
92	3.200	3.400	3.000	2.900
104	3.600	3.800	3.400	3.300
160*	2.850	5.900	2.600	2.500

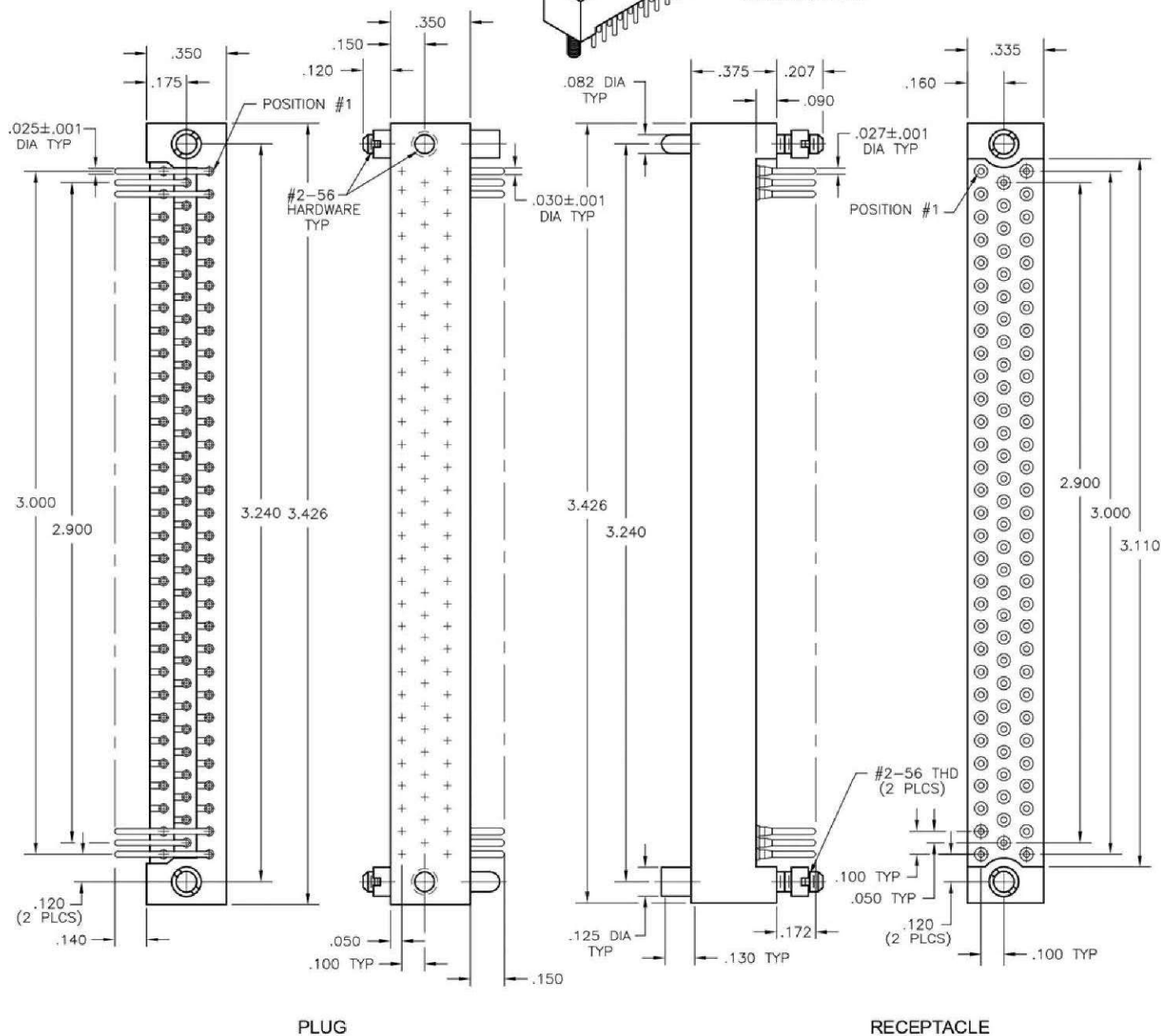
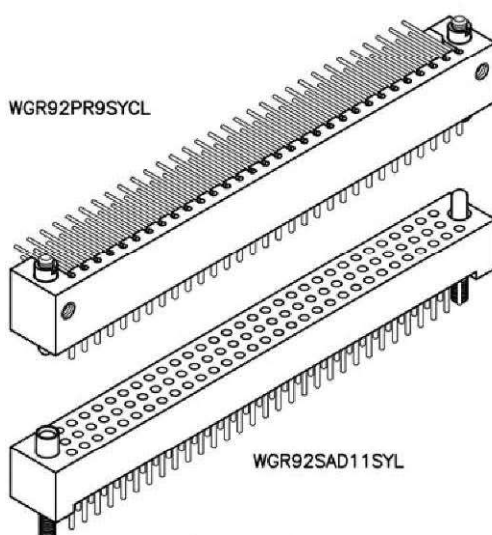
* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION

3 • ROW PC Card to Board or Chassis

.100"

WGR - WGR

92 Contacts



PLUG: WGR 92 PR9 SYCL
RECEPTACLE: WGR 92 SAD11 SYL
XXX XX XXXXX XXXX

PLUG

RECEPTACLE

SERIES	
WGR Plug, right angle, without mounting ears	WGR Receptacle, straight, without mounting ears
SIZE	
92 Number of contacts	92 Number of contacts
CONTACTS	

- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
SAD7 Socket, straight, dip solder, .109" x .027" dia
SAD9 Socket, straight, dip solder, .140" x .027" dia
SAD11 Socket, straight, dip solder, .172" x .027" dia
SAD16 Socket, straight, dip solder, .250" x .027" dia
SAG7 Socket, straight, dip solder, .109" x .018" dia
SAG9 Socket, straight, dip solder, .140" x .018" dia
SAG11 Socket, straight, dip solder, .172" x .018" dia
SAP Socket, straight, pin termination .150", connector saver
SAW40 Socket, straight, wire wrap®, .625"
SAF6 Socket, straight, flex circuit, .093"

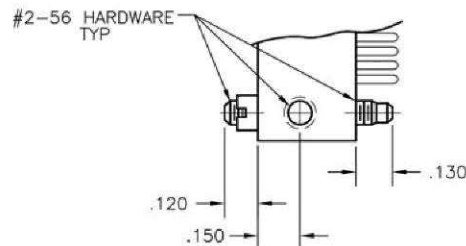
HARDWARE

SYCL Guide set, cross hole mount
JCL Fixed jackset, cross hole mount

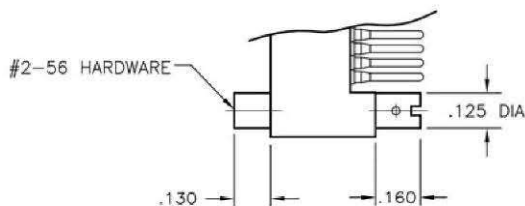
SYL Guide set, long
JT Turning jackset, .460"
JTA Turning jackset, .160"

OPTIONS

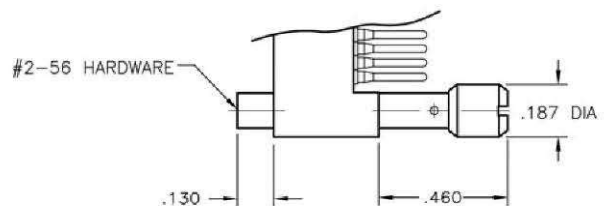
- Option Codes: Add to the end of the part number. Example: WGR92PR9JCL-D01. Call factory for additional codes.
 - D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant



EXAMPLE: -JCL HARDWARE (PLUG)



EXAMPLE: -JTA HARDWARE (RECEPTACLE)



EXAMPLE: -JT HARDWARE (RECEPTACLE)

3 · ROW PC Card to Board or Chassis

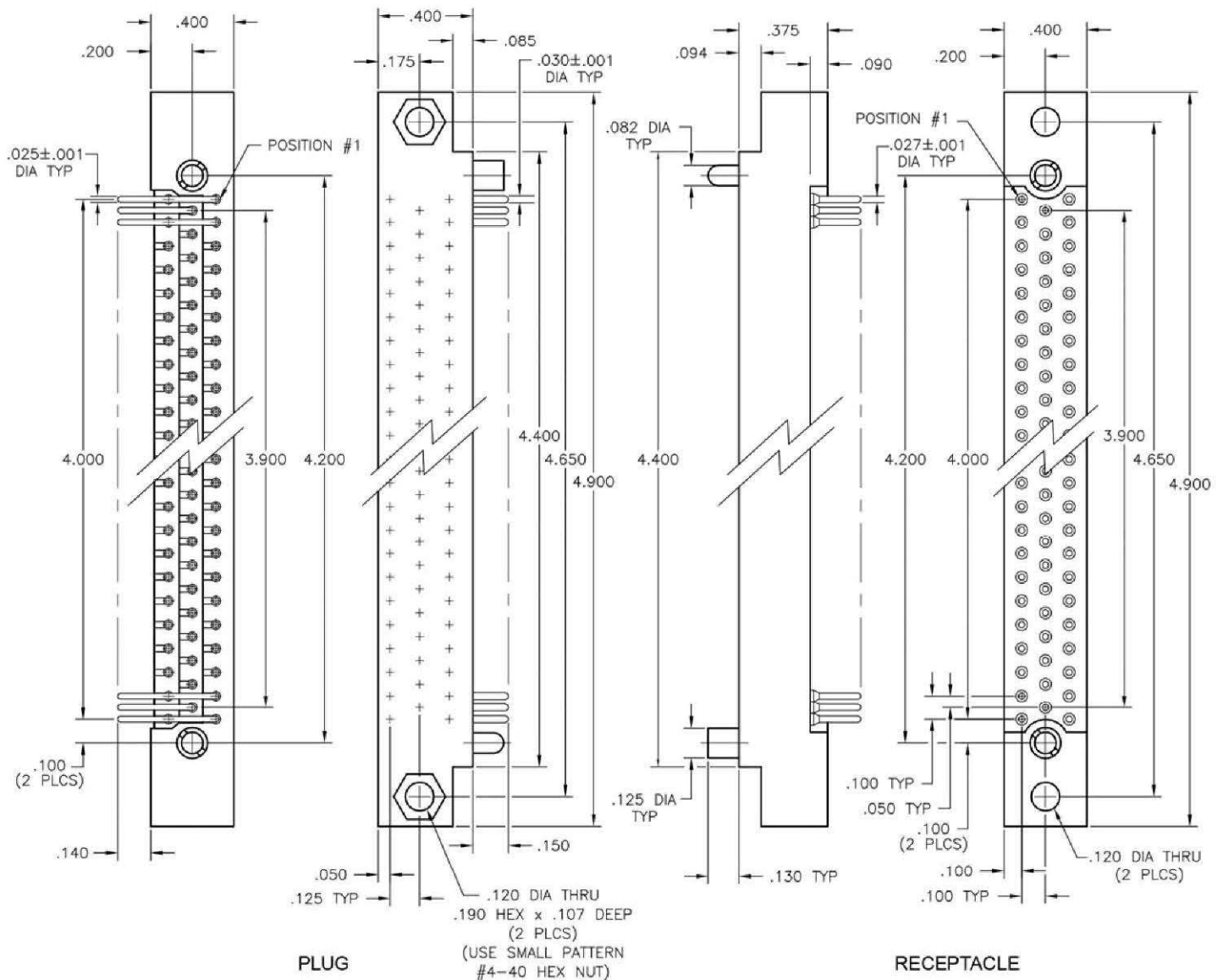
.100"

WGA - WGA

122 Contacts

WGA122PR9SY

WGA122SAD9SY



PLUG: WGA 122 PR9 SY
RECEPTACLE: WGA 122 SAD9 SY
XXX XXX XXXX XX

PLUG

RECEPTACLE

SERIES	
WGA Plug, right angle, with mounting ears	WGA Receptacle, straight, with mounting ears
	WGA Receptacle, right angle, with mounting ears
SIZE	
122 Number of contacts	122 Number of contacts
CONTACTS	

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

TYPE CONTACTS/TERMINATIONS:
PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia
PRW32 Pin, right angle, wire wrap®, .500"

TYPE CONTACTS/TERMINATIONS:
SAC Socket, straight, solder cup (.035" I.D.)
SAD7 Socket, straight, dip solder, .109" x .027" dia
SAD9 Socket, straight, dip solder, .140" x .027" dia
SAD11 Socket, straight, dip solder, .172" x .027" dia
SAF3 Socket, straight, flex circuit, .050"
SAF6 Socket, straight, flex circuit, .093"
SAF9 Socket, straight, flex circuit, .140"
SAG7 Socket, straight, dip solder, .109" x .018" dia
SAG9 Socket, straight, dip solder, .140" x .018" dia
SAG11 Socket, straight, dip solder, .172" x .018" dia
SAP Socket, straight, pin termination .150", connector saver
SAW24 Socket, straight, wire wrap®, .375"
SAW40 Socket, straight, wire wrap®, .625"
SOR7 Socket, right angle, dip solder, .109" x .025" dia
SOR9 Socket, right angle, dip solder, .140" x .025" dia
SOR11 Socket, right angle, dip solder, .172" x .025" dia

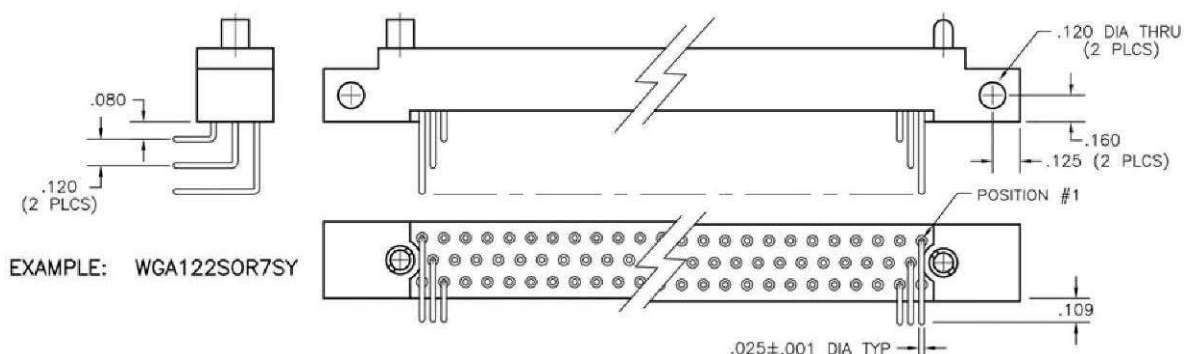
HARDWARE	
SY Guide set	SY Guide set
SY-# Guide set, polarized	SY-# Guide set, polarized
SYL Guide set, long	SYL Guide set, long
J Fixed jackset	J Fixed jackset
JT Turning jackset, .435"	JL Fixed jackset, long
JTA Turning jackset, .135"	JT Turning jackset, .460"
JTB Hex turning jackset, .135"	JTA Turning jackset, .160"
JTC Turning jackset, .435"	JTB Hex turning jackset, .160"
JTL Turning jackset, long, .635"	JTC Turning jackset, .460"
	JTL Turning jackset, long, .660"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGA122PR9SY548. Call factory for additional codes.

- 342 Remove mounting ears. (.250" each end)
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- G69 Solder cups fixed in an outward orientation (otherwise wires will rotate)
- 413 Straight pin contacts in right angle plug molding with solder cup terminals extending .100" beyond molding.
- D54 Combine -B82 and -D01 special codes.

☒ = Option not RoHS compliant

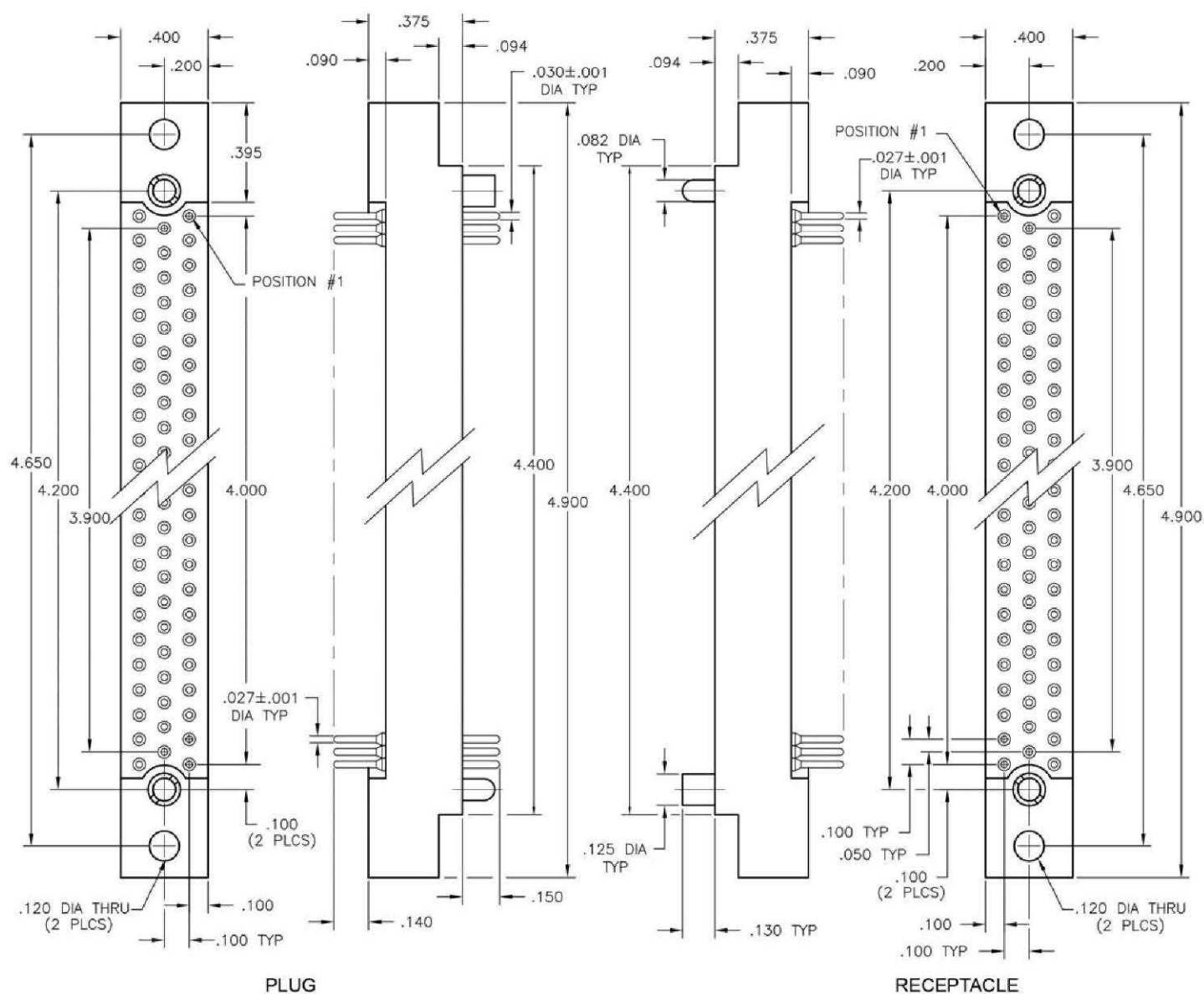
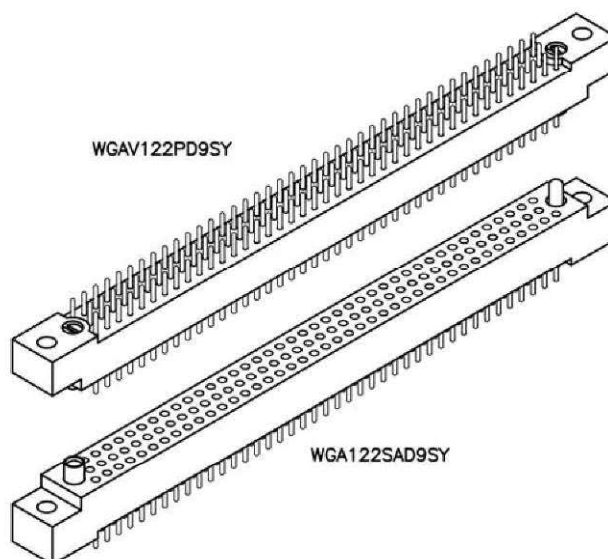


3 • ROW Sandwich Boards

.100"

WGAV - WGA

122 Contacts



PLUG: WGAV 122 PD9 SY
RECEPTACLE: WGA 122 SAD9 SY
XXXX XXX XXXX XX

PLUG

RECEPTACLE

SERIES	
WGAV Plug, straight, with mounting ears	WGA Receptacle, straight, with mounting ears
	WGA Receptacle, right angle, with mounting ears

SIZE	
122 Number of contacts	122 Number of contacts

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC	Pin, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia
PD15	Pin, straight, dip solder, .234" x .027" dia
PF6	Pin, straight, flex circuit, .093"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination .150", connector saver
SAW24	Socket, straight, wire wrap [®] , .375"
SAW40	Socket, straight, wire wrap [®] , .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

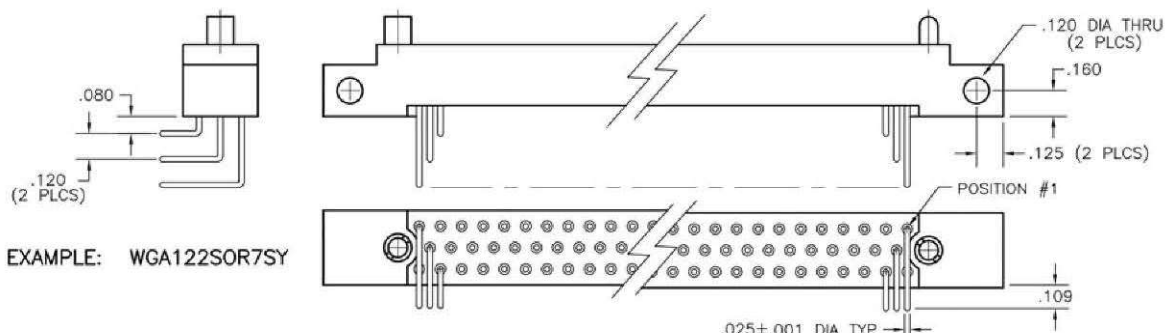
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WGAV122PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JT	Turning jackset, .460"	JT	Turning jackset, .460"
JTA	Turning jackset, .160"	JTA	Turning jackset, .160"
JTB	Hex turning jackset, .160"	JTB	Hex turning jackset, .160"
JTC	Hex turning jackset, .460"	JTC	Hex turning jackset, .460"
JTL	Turning jackset, long, .660"	JTL	Turning jackset, long, .660"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGAV122PD9SY-D01. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant

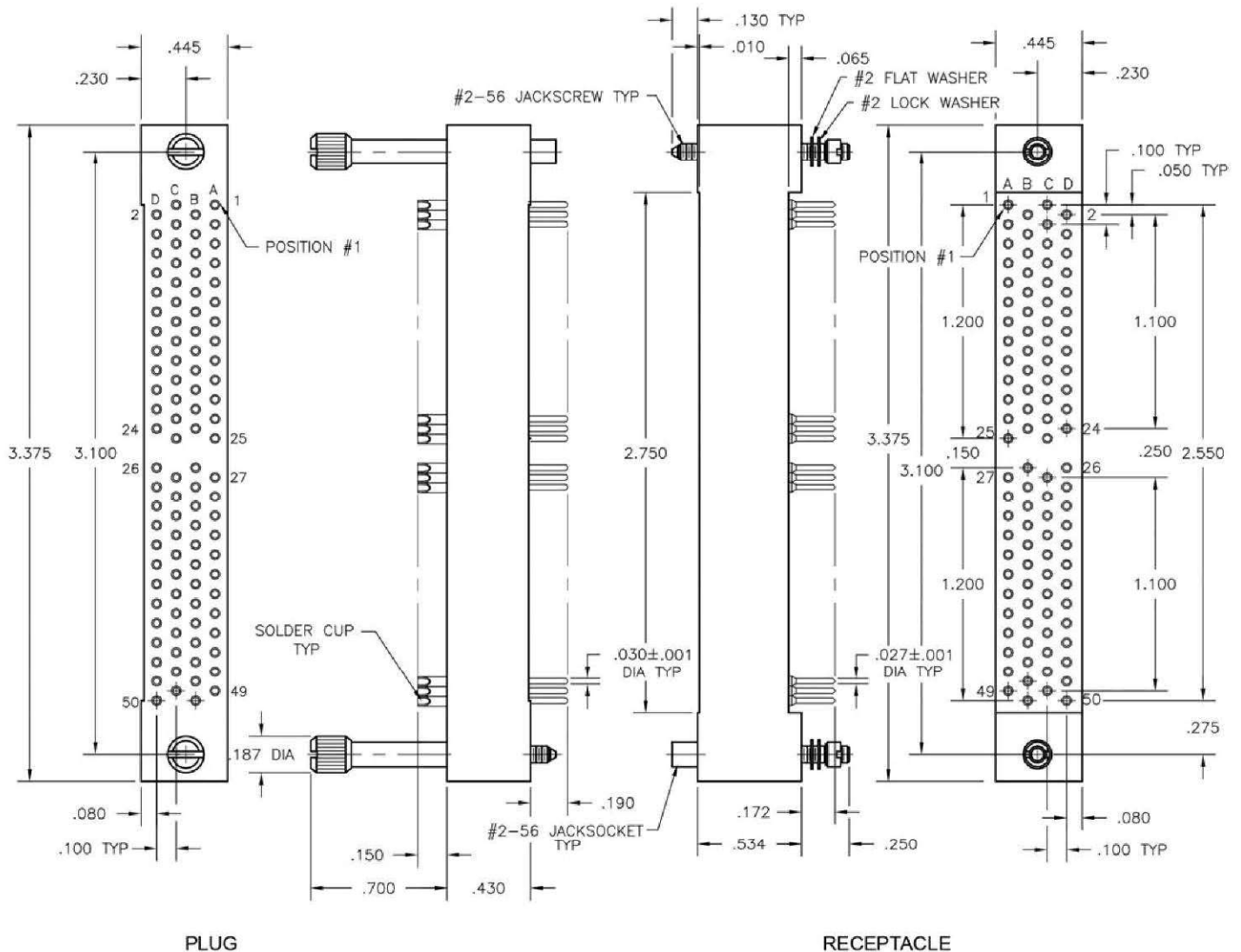
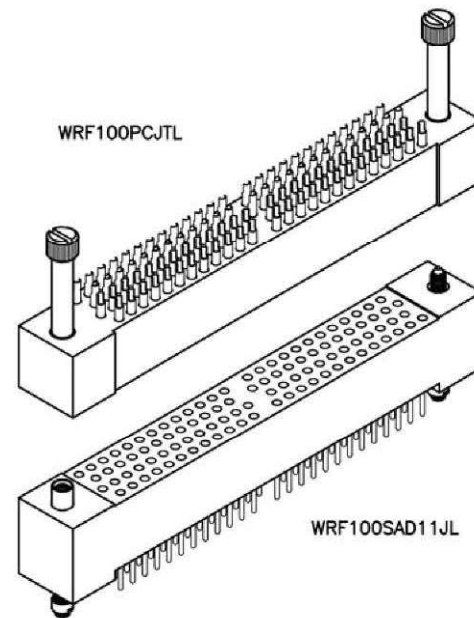


4 • ROW Cable to Board or Panel

.100"

WRF - WRF

100 Contacts



PLUG: WRF 100 PC JTL
 RECEPTACLE: WRF 100 SAD11 JL
 XXX XXX XXXXX XXX

PLUG

RECEPTACLE

SERIES

WRF Plug, straight, without mounting ears | WRF Receptacle, straight, without mounting ears

SIZE

100 Number of contacts | 100 Number of contacts

CONTACTS

- Contact identification: Looking at the mating face of the connector, each contact has a double indicator designation, including a row letter and a position number. Rows "A" & "C" contain odd numbers 1 thru 49; rows "B" & "D" contain even numbers 2 thru 50.

TYPE CONTACTS/TERMINATIONS:

PC Pin, straight, solder cup
 PD11 Pin, straight, dip solder, .172" x .027" dia
 PF6 Pin, straight, flex circuit, .093"

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
 SAD9 Socket, straight, dip solder, .140" x .027" dia
 SAD11 Socket, straight, dip solder, .172" x .027" dia
 SAP Socket, straight, pin termination .150", connector saver

HARDWARE

JTB Hex turning jackset, .200" | J Fixed jackset
 JTL Long turning jackset, .700" | JL Fixed jackset, long

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRF100SAD11JL-D54. Call factory for additional codes.
 - B82 Termination face sealed against conformal coating
 - D01 Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with SAC305 solder (lead free).
 - D54 Combine -B82 & -D01 special codes
- ☒ = Option not RoHS compliant



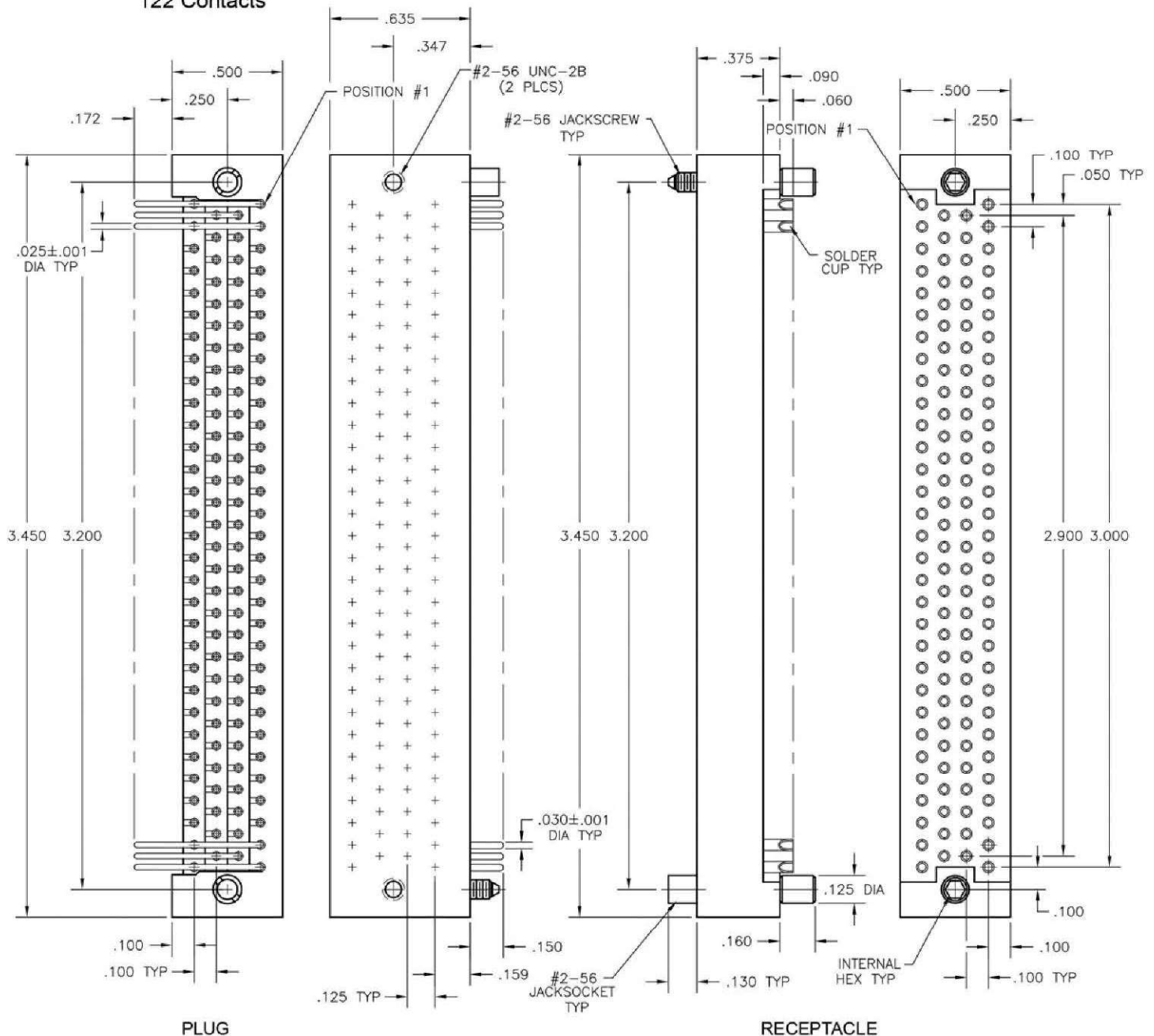
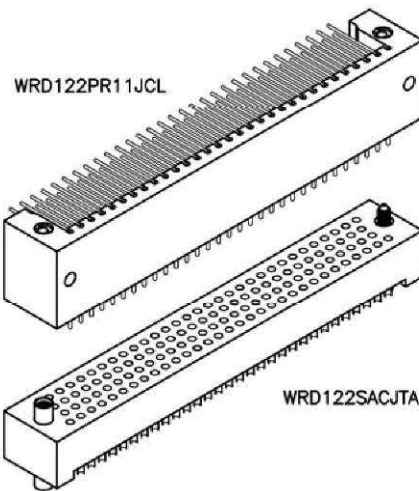
4 . ROW

PC Card to Board or Chassis

.100"

WRD - WRD

122 Contacts



PLUG: WRD 122 PR11 JCL
 RECEPTACLE: WRD 122 SAC JTA
 XXX XXX XXXX XXX

PLUG

RECEPTACLE

SERIES	
WRD	Plug, right angle, without mounting ears
WRD	Receptacle, straight, without mounting ears
WRD	Receptacle, right angle, without mounting ears

SIZE	
122	Number of contacts
122	Number of contacts

CONTACTS

TYPE CONTACTS/TERMINATIONS:
 PR5 Pin, right angle, dip solder, .078" x .025" dia
 PR7 Pin, right angle, dip solder, .109" x .025" dia
 PR9 Pin, right angle, dip solder, .140" x .025" dia
 PR11 Pin, right angle, dip solder, .172" x .025" dia

TYPE CONTACTS/TERMINATIONS:
 SAC Socket, straight, solder cup (.035" I.D.)
 SAD7 Socket, straight, dip solder, .109" x .027" dia
 SAD9 Socket, straight, dip solder, .140" x .027" dia
 SAD11 Socket, straight, dip solder, .172" x .027" dia
 SAD15 Socket, straight, dip solder, .234" x .027" dia
 SAF3 Socket, straight, flex circuit, .050"
 SAF6 Socket, straight, flex circuit, .093"
 SAG7 Socket, straight, dip solder, .109" x .018" dia
 SAG9 Socket, straight, dip solder, .140" x .018" dia
 SAG11 Socket, straight, dip solder, .172" x .018" dia
 SAP Socket, straight, pin termination .150", connector saver
 SOR9 Socket, right angle, dip solder, .140"

HARDWARE

SYCL	Guide set, cross hole mount	J	Fixed Jackset
SYCL-#	Guide set, cross hole mount, polarized	JTA	Turning jackset, .160"
JCL	Fixed jackset, cross hole mount	JTB	Hex turning jackset, .160"
JTB	Turning jackset, no cross hole	JTL	Long turning jackset, .640"
		SY	Guide set
		SY-#	Guide set, polarized

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRD122SAD9SY-D54. Call factory for additional codes.
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 special codes
- ☒ = Option not RoHS compliant

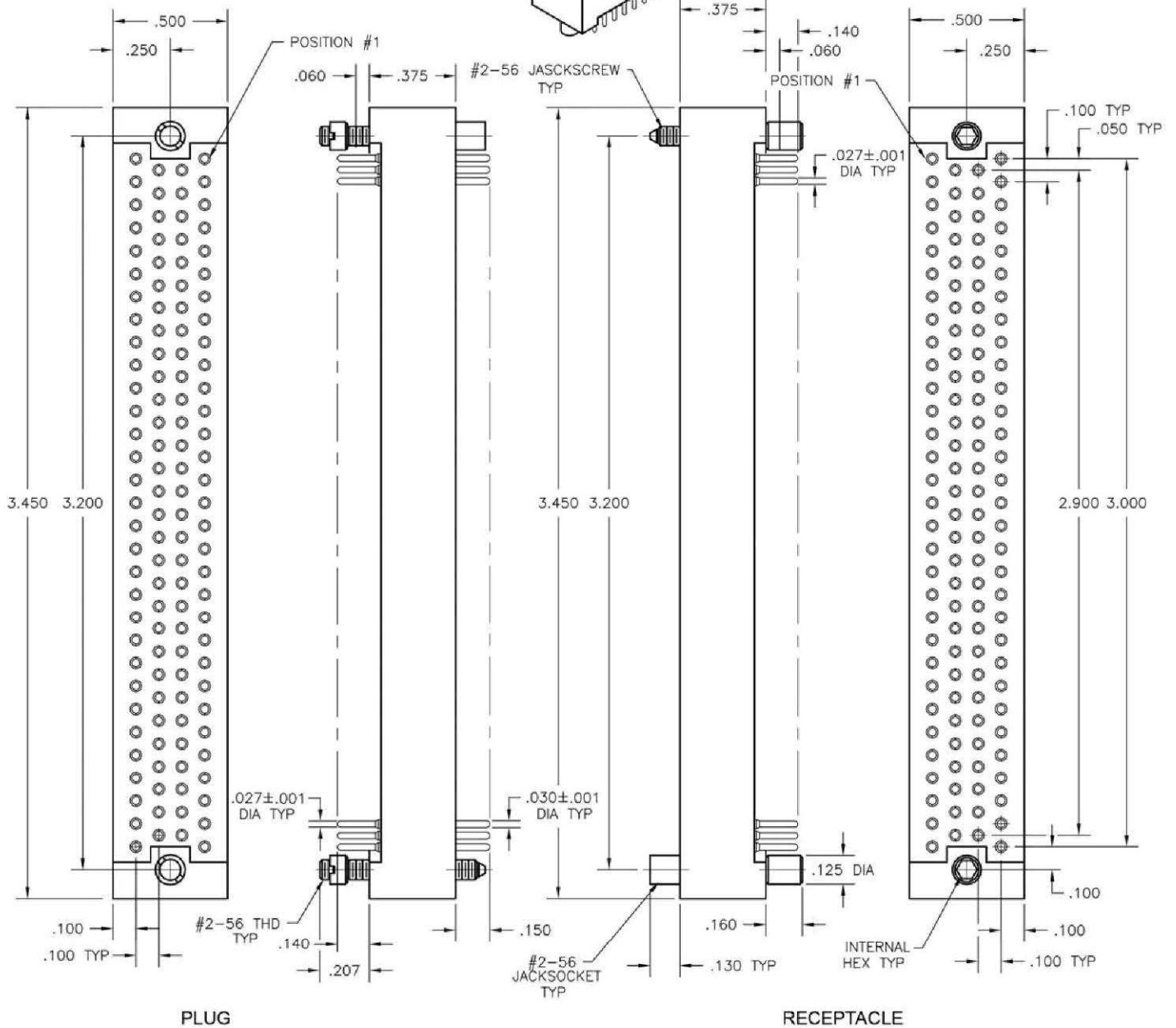
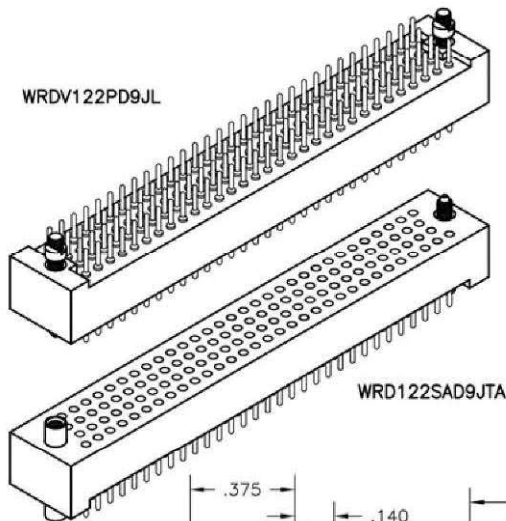


4 • ROW Sandwich Boards

.100"

WRDV - WRD

122 Contacts



PLUG: WRDV 122 PD9 JL
RECEPTACLE: WRD 122 SAD9 JTA
XXXX XXX XXXX XXX

PLUG

RECEPTACLE

SERIES

WRDV Plug, straight, without mounting ears

WRD Receptacle, straight, without mounting ears

WRD Receptacle, right angle, without mounting ears

SIZE

122 Number of contacts

122 Number of contacts

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC Pin, straight, solder cup (.035" I.D.)
PD7 Pin, straight, dip solder, .109" x .027" dia
PD9 Pin, straight, dip solder, .140" x .027" dia
PD11 Pin, straight, dip solder, .172" x .027" dia
PD15 Pin, straight, dip solder, .234" x .027" dia

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
SAD7 Socket, straight, dip solder, .109" x .027" dia
SAD9 Socket, straight, dip solder, .140" x .027" dia
SAD11 Socket, straight, dip solder, .172" x .027" dia
SAD15 Socket, straight, dip solder, .234" x .027" dia
SAF3 Socket, straight, flex circuit, .050"
SAF6 Socket, straight, flex circuit, .093"
SAG7 Socket, straight, dip solder, .109" x .018" dia
SAG9 Socket, straight, dip solder, .140" x .018" dia
SAG11 Socket, straight, dip solder, .172" x .018" dia
SAP Socket, straight, pin termination .150", connector saver
SOR9 Socket, right angle, dip solder, .140" x .025" dia

HARDWARE

J Fixed jackset

JL Fixed jackset, long

JTA Turning jackset, .160"

JTB Hex turning jackset, .160"

JTL Long turning jackset, .660"

SY Guide set

SY-# Guide set, polarized

J Fixed jackset

JL Fixed jackset, long

JTA Turning jackset, .160"

JTB Hex turning jackset, .160"

JTL Long turning jackset, .660"

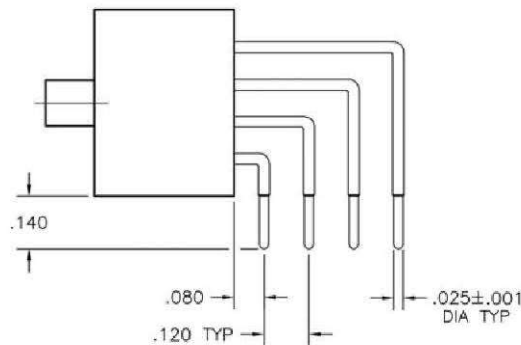
SY Guide set

SY-# Guide set, polarized

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRD122SAD9SY-D01. Call factory for additional codes.
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 special codes

☒ = Option not RoHS compliant



EXAMPLE: WRD122SOR9J

PLUG: WRD 122 PR11 JCL
 RECEPTACLE: WRDDXA 122 S JTB
 XXXXX XX XXX XX

PLUG

RECEPTACLE

SERIES

WRD Plug, right angle, without mounting ears

WRDDXA Receptacle, straight, crimp removable, without mounting ears

- WRDDXA mates with WRD and WRDV connectors. "A" means contacts are included.

SIZE

122 Number of contacts

122 Number of contacts

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- WRDDXA** includes full complement of WTK2222 (S or PA) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:
 PR7 Pin, right angle, dip solder, .109" x .025" dia
 PR9 Pin, right angle, dip solder, .140" x .025" dia
 PR11 Pin, right angle, dip solder, .172" x .025" dia

TYPE CONTACTS/TERMINATIONS:
 S Socket, straight, crimp removable, 22 AWG
 SA Same as above
 P Pin, straight, crimp removable, 22 AWG

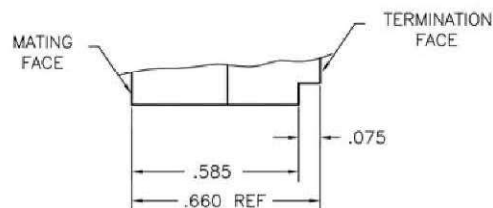
HARDWARE

JCL Fixed jackset, cross hole mount
 SYCL Guide set, cross hole mount
 SYCL-# Guide set, cross hole mount, polarized

SY Guide set
 SY-# Guide set, polarized
 JTA Turning jackset, .200"
 JTB Hex turning jackset, .200"
 JTL Long turning jackset, .700"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRDDXA122SSY-C45. Call factory for additional codes.
- A53 Socket, straight, crimp removable, 20 AWG
- C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



DETAIL A

2 • ROW

Coax Connectors

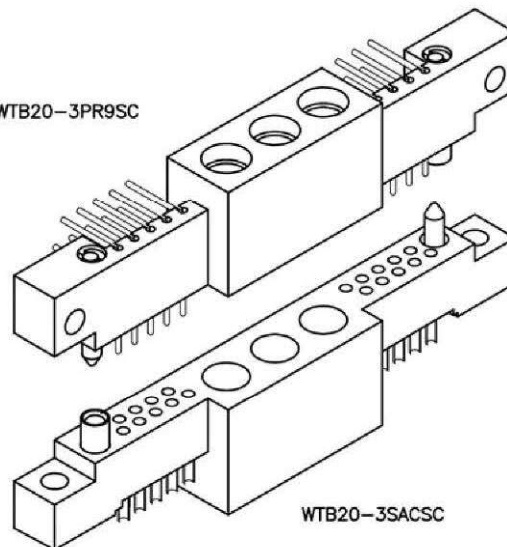
PC Card to Board or Chassis

.100"

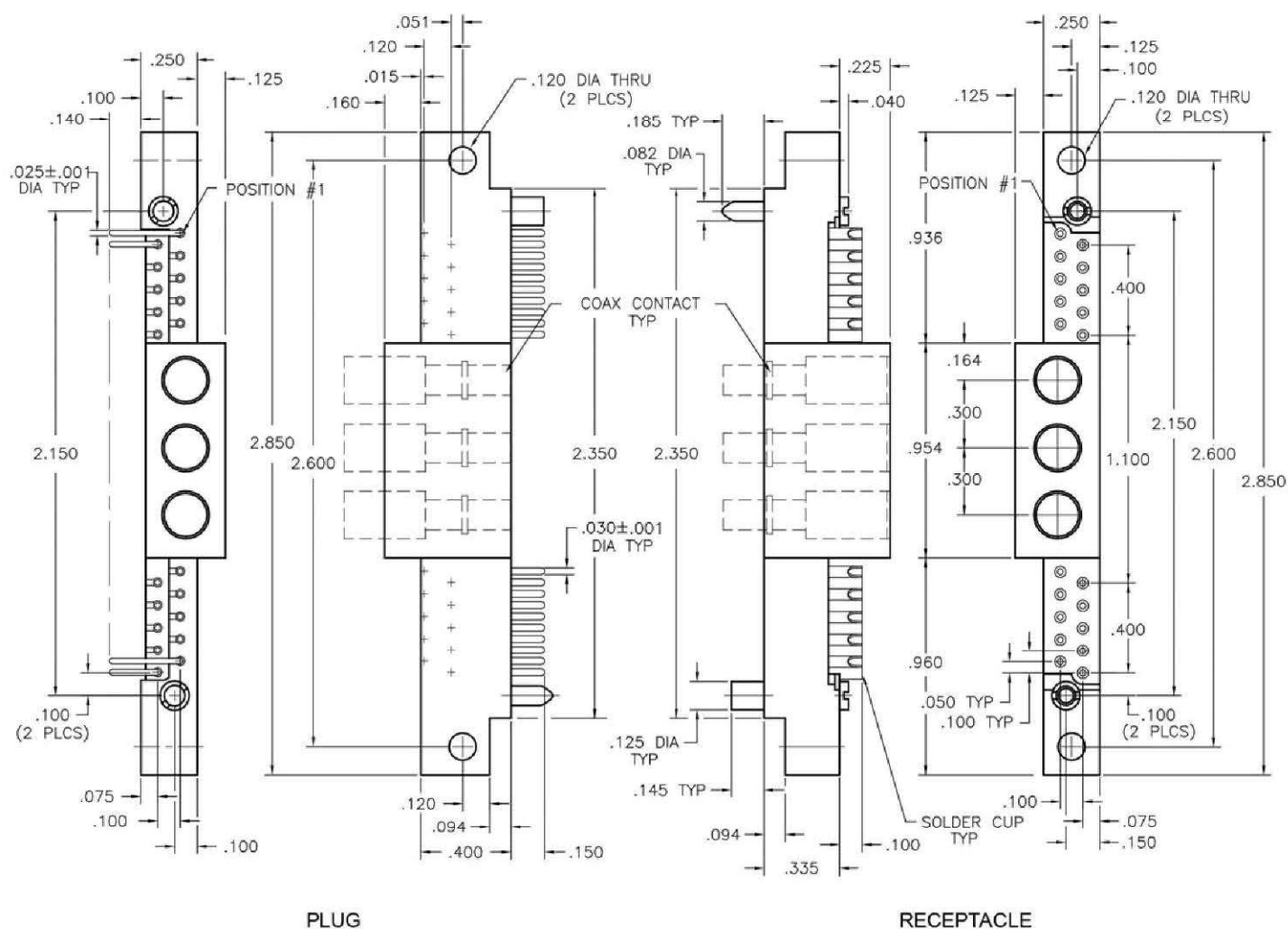
WTB - WTB

20-3 Contacts

WTB20-3PR9SC



WTB20-3SACSC



PLUG: WTB 20-3 PR9 SC
 RECEPTACLE: WTB 20-3 SAC SC
 XXX XXXX XXX XX

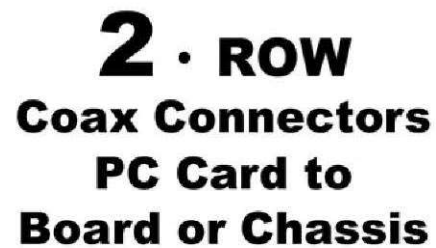
PLUG

RECEPTACLE

SERIES	
WTB Plug, right angle, with mounting ears	WTB Receptacle, straight, with mounting ears
SIZE	
20-3 20 right angle signal pins, plus 3 straight or right angle removable coax sockets	20-3 20 straight signal pins, plus 3 straight removable coax pins
CONTACTS	
TYPE CONTACTS/TERMINATIONS: PR7 Pin, right angle, dip solder, .109" x .025" dia PR9 Pin, right angle, dip solder, .140" x .025" dia PR11 Pin, right angle, dip solder, .172" x .025" dia	TYPE CONTACTS/TERMINATIONS: SAC Socket, straight, solder cup (.035" I.D.) SAD9 Socket, straight, dip solder, .140" x .027" dia SAD11 Socket, straight, dip solder, .172" x .027" dia SAD15 Socket, straight, dip solder, .234" x .027" dia SAG7 Socket, straight, dip solder, .109" x .018" dia SAG9 Socket, straight, dip solder, .140" x .018" dia SAG11 Socket, straight, dip solder, .172" x .018" dia
HARDWARE	
SC Guide set	SC Guide set
SC-# Guide set, polarized	SC-# Guide set, polarized

OPTIONS

- Molded insulator: Diallyl Phthalate per ASTM-D5948 (GDI-30F or SDG-F)
 - Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
 - Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)
 - Option Codes: Add to the end of the part number. Example: WTB20-3SAD11SC-C34. Call factory for additional codes.
 - 342 Remove mounting ears. (.250" each end)
 - C34 Remove .225" standoff so connector is flush to board (receptacle only).
 - G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant



WTB - WTB



www.airborn.com
(512) 863-5585

"W" Series Connectors
W-69

PLUG: WTB 20-6 PR9 SC
 RECEPTACLE: WTB 20-6 SAC SC
 XXX XXXX XXX XX

PLUG

RECEPTACLE

SERIES

WTB Plug, right angle, with mounting ears

WTB Receptacle, straight, with mounting ears

SIZE

20-6 20 right angle signal pins, plus 6 straight or right angle removable coax sockets

20-6 20 straight signal pins, plus 6 straight removable coax pins

CONTACTS

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia
 PR9 Pin, right angle, dip solder, .140" x .025" dia
 PR11 Pin, right angle, dip solder, .172" x .025" dia

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
 SAD9 Socket, straight, dip solder, .140" x .027" dia
 SAD11 Socket, straight, dip solder, .172" x .027" dia
 SAD15 Socket, straight, dip solder, .234" x .027" dia
 SAG7 Socket, straight, dip solder, .109" x .018" dia
 SAG9 Socket, straight, dip solder, .140" x .018" dia
 SAG11 Socket, straight, dip solder, .172" x .018" dia

HARDWARE

SC Guide set
 SC-# Guide set, polarized

SC Guide set
 SC-# Guide set, polarized

OPTIONS

- Molded insulator: Diallyl Phthalate per ASTM-D5948 (GDI-30F or SDG-F)
 - Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
 - Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)
 - Option Codes: Add to the end of the part number. Example: WTB20-6SAD9SC342. Call factory for additional codes.
 - 342 Remove mounting ears. (.250" each end)
 - C34 Remove .225" standoff so connector is flush to board (receptacle only).
 - G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant

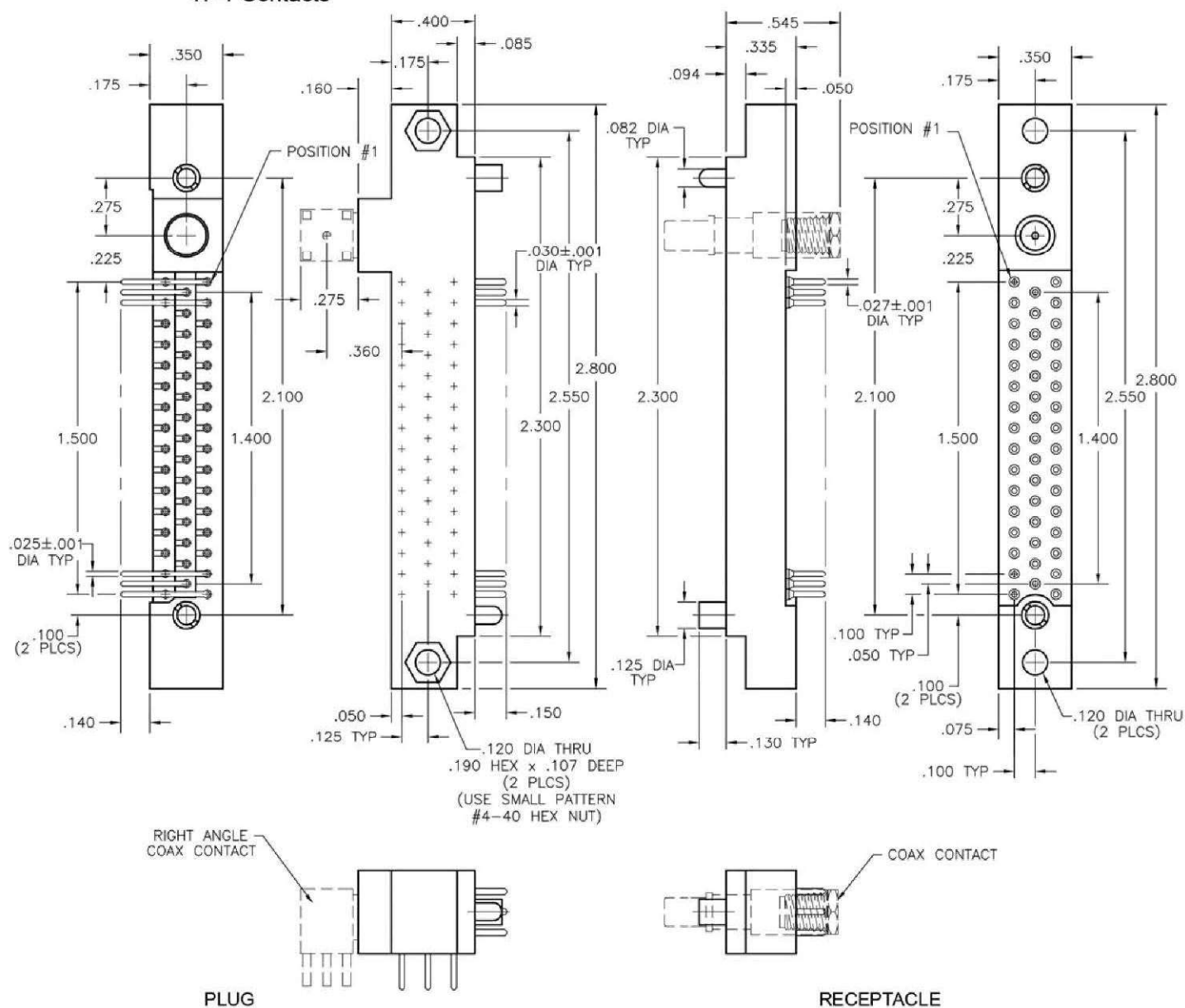
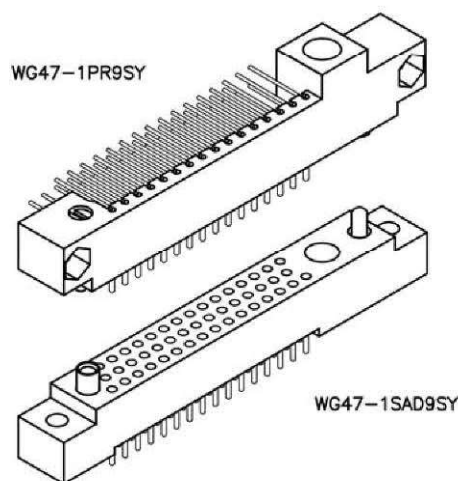
3 · ROW

**Coax Connectors
PC Card to
Chassis or Board**

.100"

WG - WG

47-1 Contacts



PLUG: WG 47-1 PR11 SY
 RECEPTACLE: WG 47-1 SAD9 SY
 XX 47-1 XXXX XX

PLUG

RECEPTACLE

SERIES

WG Plug, right angle, with mounting ears | WG Receptacle, straight, with mounting ears

SIZE

47-1 47 right angle signal pins, plus 1 right angle or straight removable coax socket | 47-1 47 straight signal pins, plus 1 straight removable coax pin

CONTACTS

TYPE CONTACTS/TERMINATIONS:
 PR7 Pin, right angle, dip solder, .109" x .025" dia
 PR9 Pin, right angle, dip solder, .140" x .025" dia
 PR11 Pin, right angle, dip solder, .172" x .025" dia

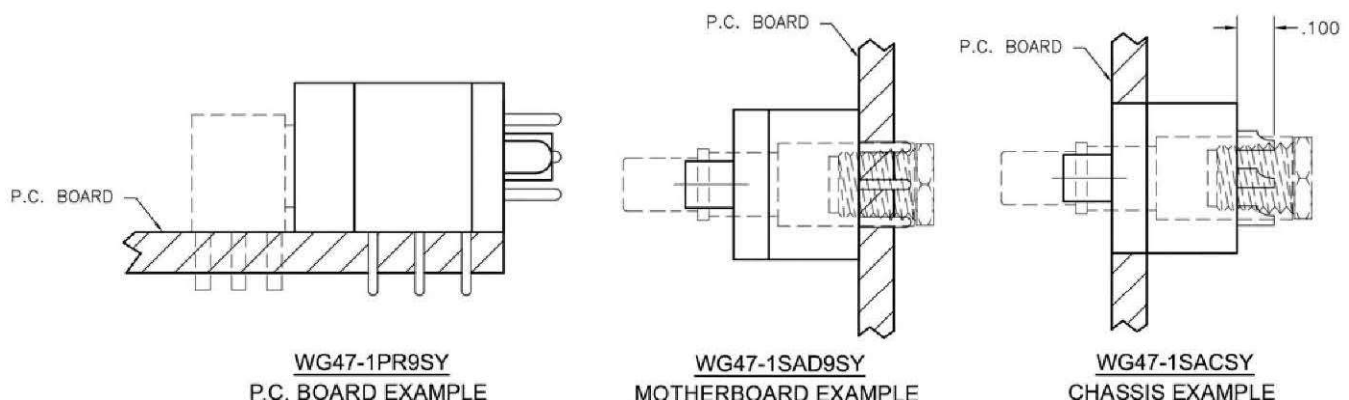
TYPE CONTACTS/TERMINATIONS:
 SAC Socket, straight, solder cup (.035" I.D.)
 SAD9 Socket, straight, dip solder, .140" x .027" dia
 SAD11 Socket, straight, dip solder, .172" x .027" dia
 SAD15 Socket, straight, dip solder, .234" x .027" dia
 SAG7 Socket, straight, dip solder, .109" x .018" dia
 SAG9 Socket, straight, dip solder, .140" x .018" dia
 SAG11 Socket, straight, dip solder, .172" x .018" dia

HARDWARE

SY Guide set | SY Guide set
 SY-# Guide set, polarized | SY-# Guide set, polarized

OPTIONS

- Molded insulator (plug only): Diallyl Phthalate per ASTM-D5948 (GDI-30F or SDG-F)
 - Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
 - Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)
 - Option Codes: Add to the end of the part number. Example: WG47-1SACSY-C34. Call factory for additional codes.
 - 342 Remove mounting ears. (.250" each end)
 - 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
 - C34 Remove .225" standoff so connector is flush to board (receptacle only).
 - G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC 305 solder (lead free).
- ☒ = Option not RoHS compliant



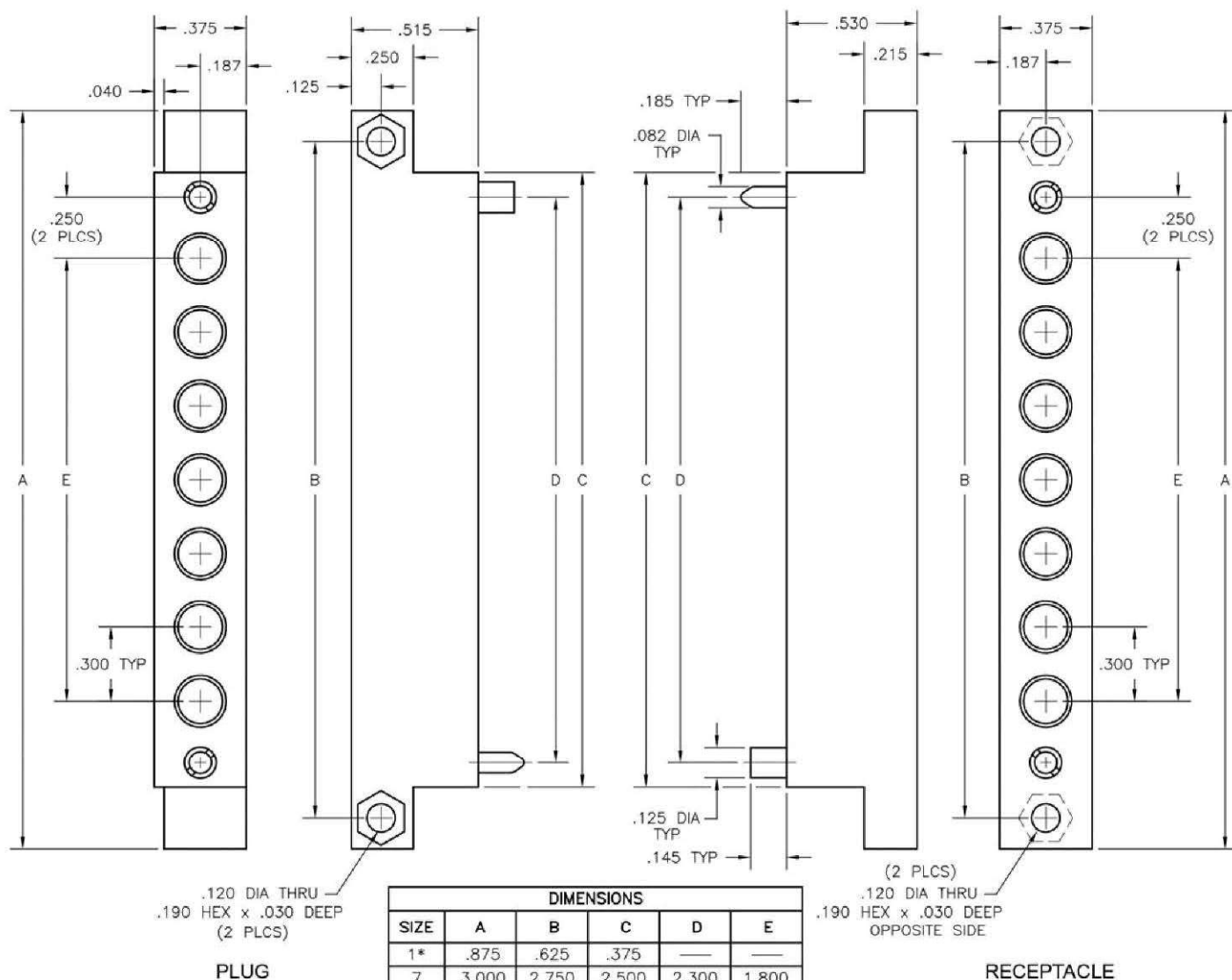
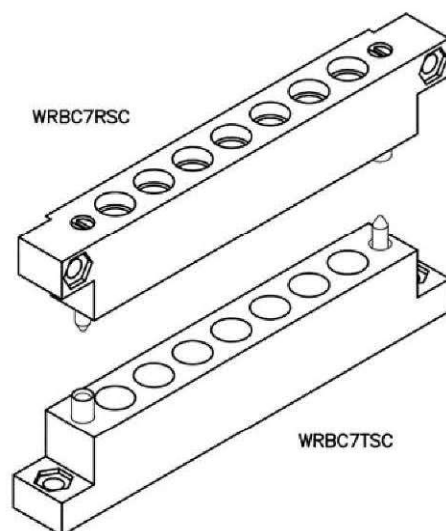


1 • ROW Coax Connectors PC Card to Chassis

.300"

WRBC - WRBC

1, 7 & 11 Contacts



* = SEE OPPOSITE PAGE FOR 1 POSITION
CONFIGURATION

PLUG: WRBC 7 R SC
 RECEPTACLE: WRBC 7 T SC
 XXXX XX X XX

PLUG

RECEPTACLE

SERIES
 WRBC Plug, right angle, with mounting ears | WRBC Receptacle, straight, with mounting ears

SIZE
 XX Number of coax contacts (1, 7 or 11) | XX Number of coax contacts (1, 7 or 11)

CONTACTS

R TYPE CONTACTS/TERMINATIONS:
 Sockets, straight or right angle, removable coax contacts

T TYPE CONTACTS/TERMINATIONS:
 Pins, straight, removable coax contacts

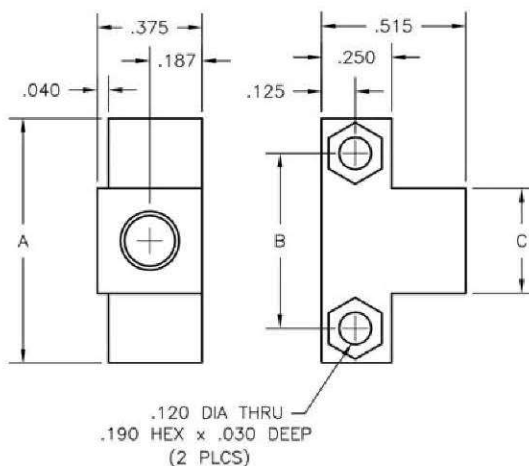
HARDWARE

SC Guide set
 SC-# Guide set, polarized

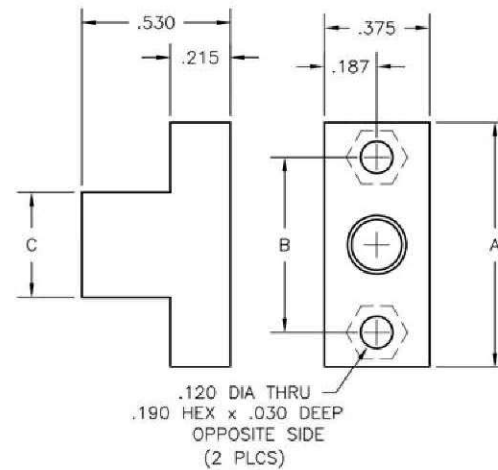
SC Guide set
 SC-# Guide set, polarized

OPTIONS

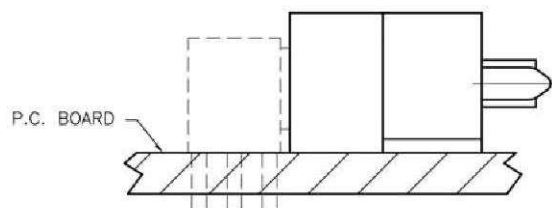
- Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
- Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)



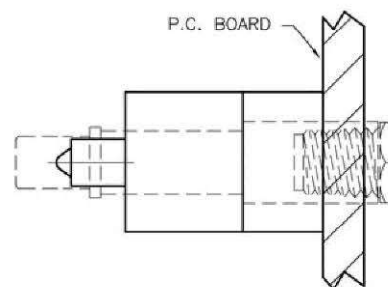
WRBC1R



WRBC1T



WRBC7RSC
 P.C. BOARD EXAMPLE



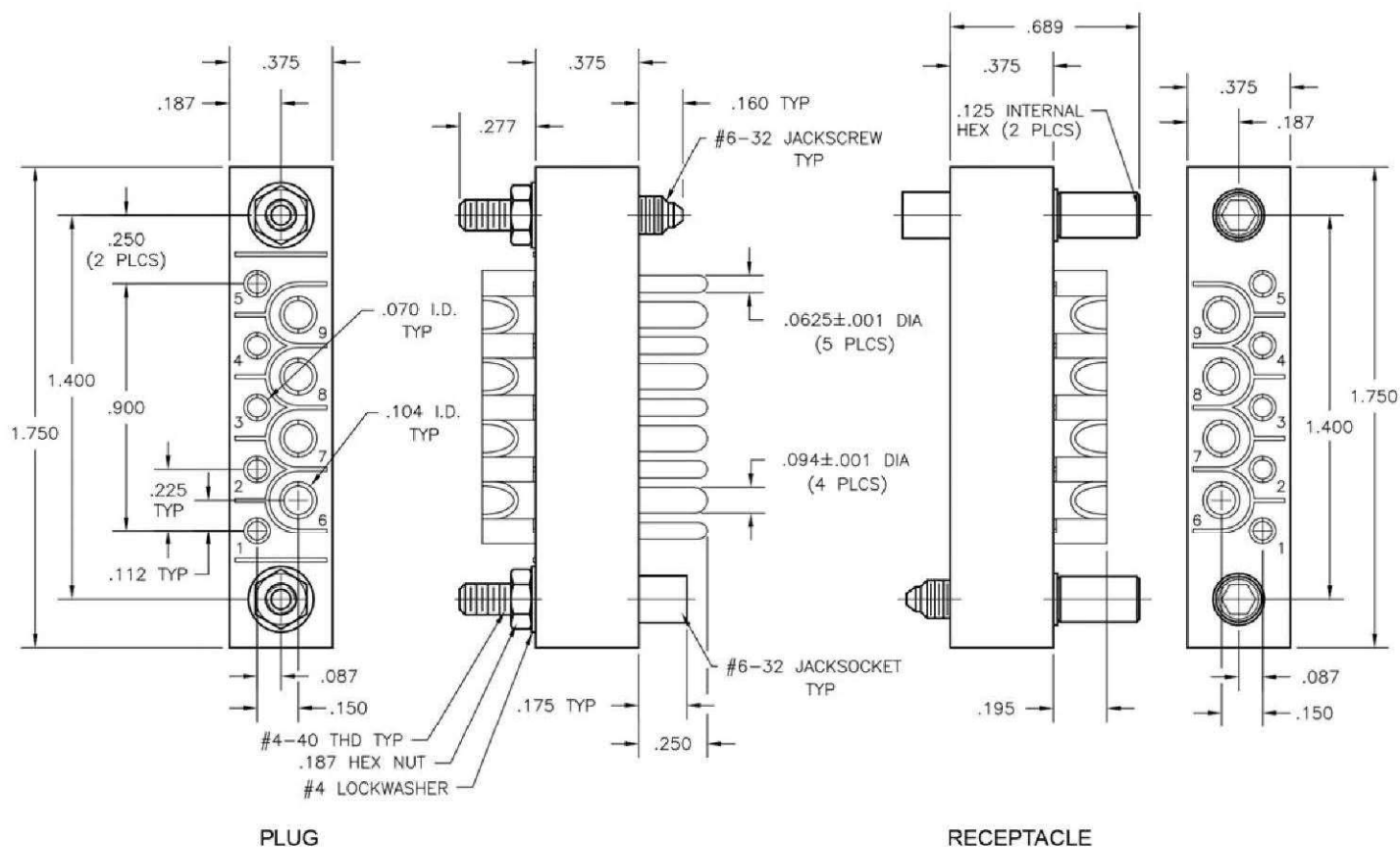
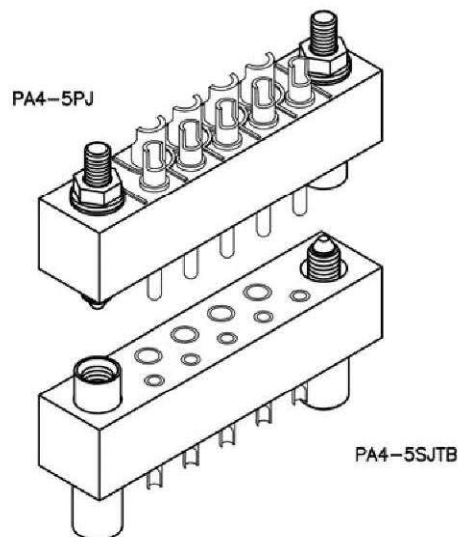
WRBC7TSC
 MOTHERBOARD EXAMPLE

MISC. CONNECTORS Power Cable to Chassis

.225"

PA - PA

5 & 4-5 Contacts



SEE OPPOSITE PAGE FOR 5 POSITION CONFIGURATION.
SEE PAGE W-77 & W-78 FOR 10 POSITION CONFIGURATION.

NOTES:

Molded bodies: Diallyl phthalate per ASTM-D5948 (GDI-30F or SDG-F)

Contact rating: #12 contacts = 23 amps
#16 contacts = 13 amps

Contact material: Socket - Beryllium copper, gold plated
Pin - Brass gold plated

Contact plating: Nominal Au plating thickness is 20 microinches on mating surfaces

Test voltage: 2000 VRMS @ sea level; 460 VRMS @ 70,000 feet

Contact resistance: #12 contacts=.023 volt maximum drop @ 23 amps (.001 ohms)
#16 contacts=.023 volt maximum drop @ 13 amps (.002 ohms)

Engagement force: 24 ounces maximum average per contact



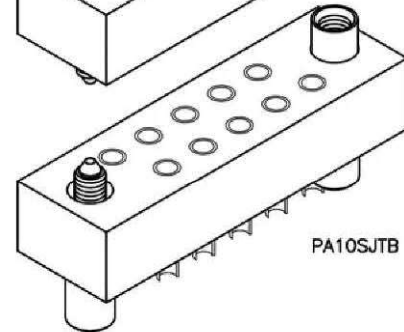
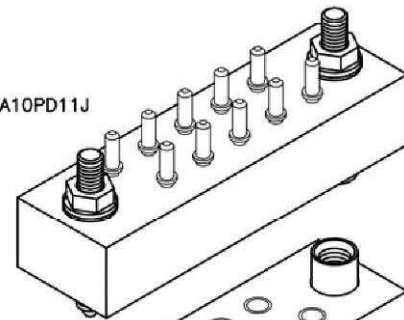
MISC. CONNECTORS Power Cable to Chassis

.225"

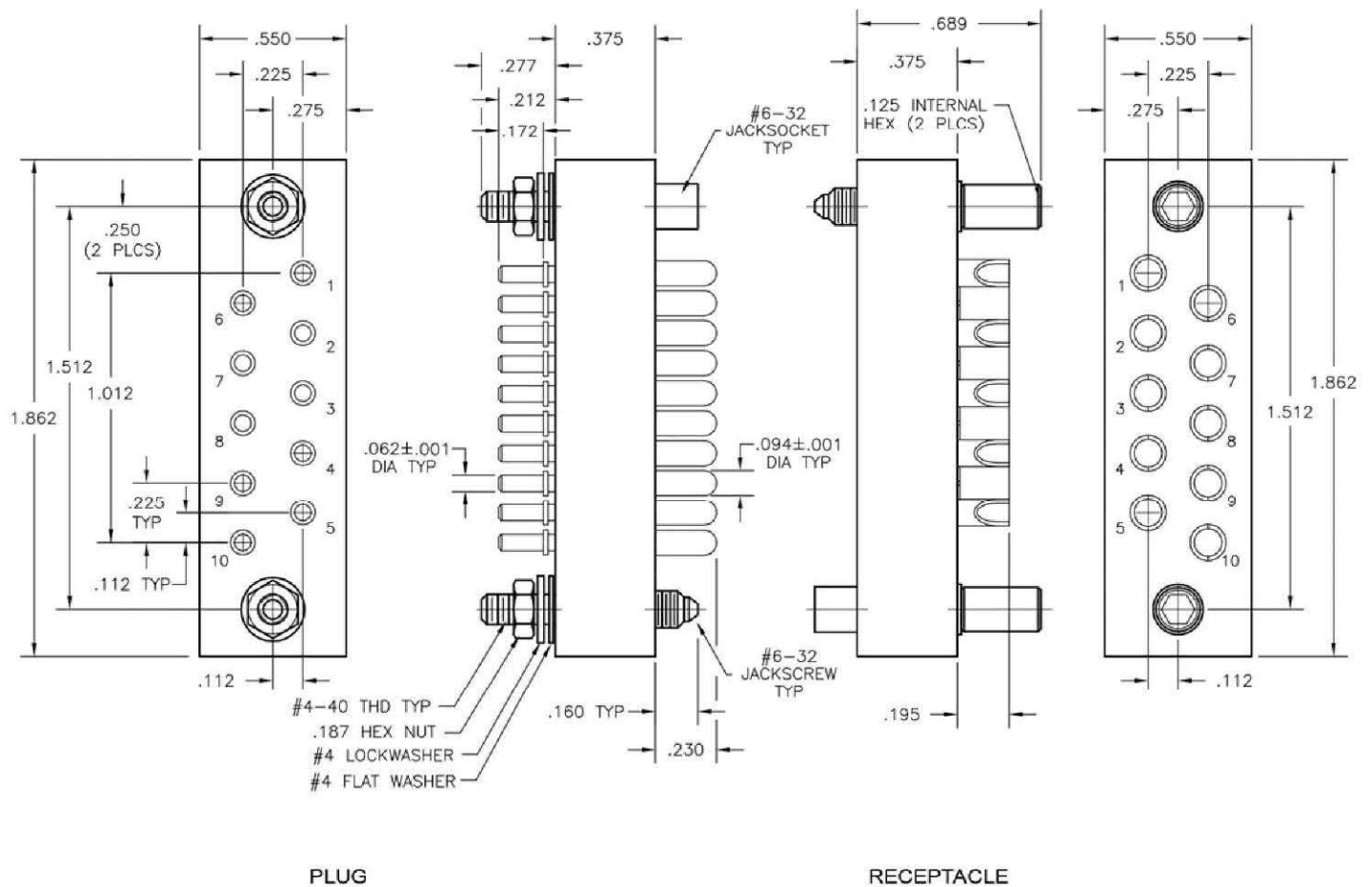
PA - PA

10 Contacts

PA10PD11J



PA10SJT8



SEE OPPOSITE PAGE FOR 10 POSITION RIGHT ANGLE PLUG CONFIGURATION.

PLUG: PB 20 S JTB
 RECEPTACLE: PB 20 P J
 XX XX X XXX

PLUG

RECEPTACLE

SERIES

PB Power connectors

PB Power connectors

SIZE

20 20 #12 contacts

20 20 #12 contacts

CONTACTS

TYPE CONTACTS/TERMINATIONS:
 P Pin, straight, solder cup
 PD11 Pin, straight, dip solder, .172" x .062" dia
 PR7 Pin, right angle, dip solder, .109" x .082" dia
 PR8 Pin, right angle, dip solder, .125" x .082" dia

TYPE CONTACTS/TERMINATIONS:
 S Socket, straight, solder cup
 SD11 Socket, straight, dip solder, .172" x .062"

HARDWARE

SY Guide set
 J Fixed jackset
 JT Turning jackset, 1.054" (straight plug only)
 JTB Hex turning jackset, .314" (straight plug only)
 JTL Long turning jackset, 1.175"

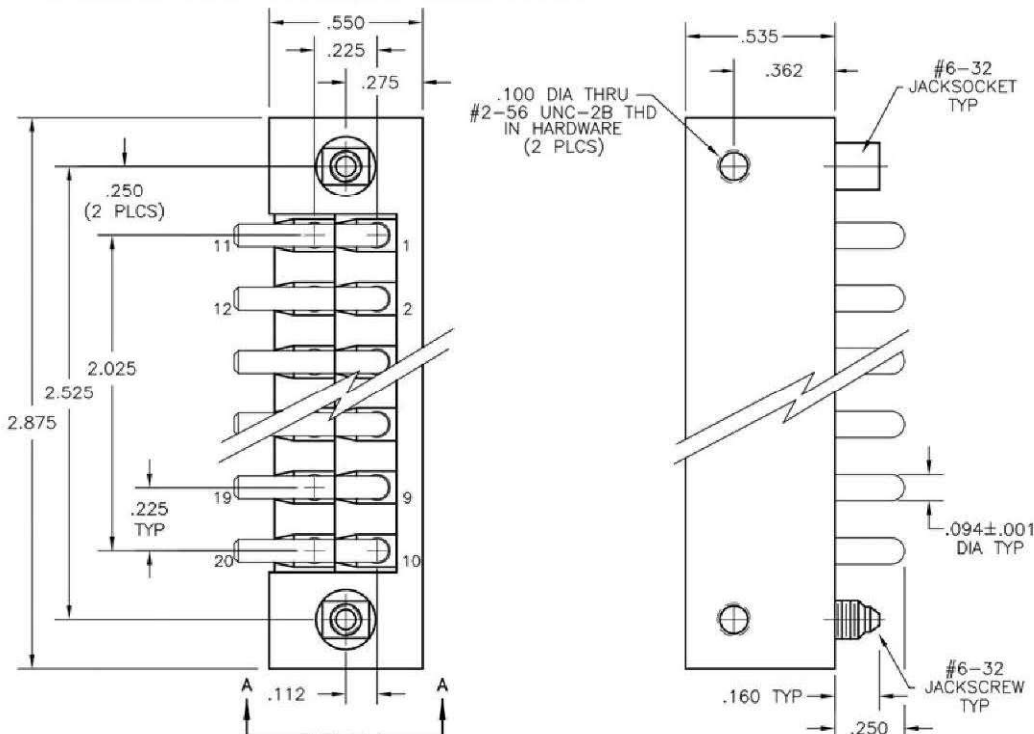
SY Guide set
 J Fixed jackset
 JT Turning jackset, 1.054"
 JTB Hex turning jackset, .314"
 JTL Long turning jackset, 1.175"

OPTIONS

- Option Codes: Add to the end of the part number. Example: PA5PD11SY-P39. Call factory for additional codes.
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant

NOTES:

Molded bodies: Polyphenylene sulfide
 Contact rating: #12 contacts = 23 amps
 Contact material: Socket - Beryllium copper, gold plated
 Pin - Brass gold plated
 Contact plating: Nominal Au plating thickness is 20 microinches on mating surfaces
 Test voltage: 2000 VRMS @ sea level; 460 VRMS @ 70,000 feet
 Contact resistance: .023 volt maximum drop @ 23 amps (.001 ohm)
 Engagement force: 24 ounces maximum average per contact



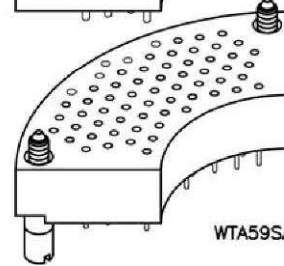
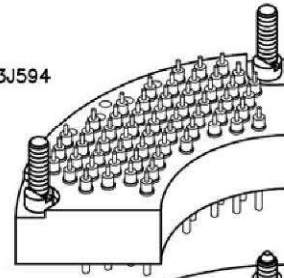
MISC CONNECTORS Quarter Round Sandwich Boards

.087" x .050"

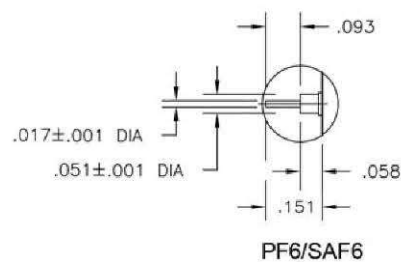
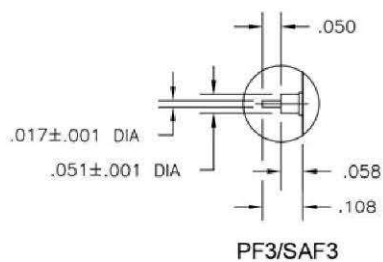
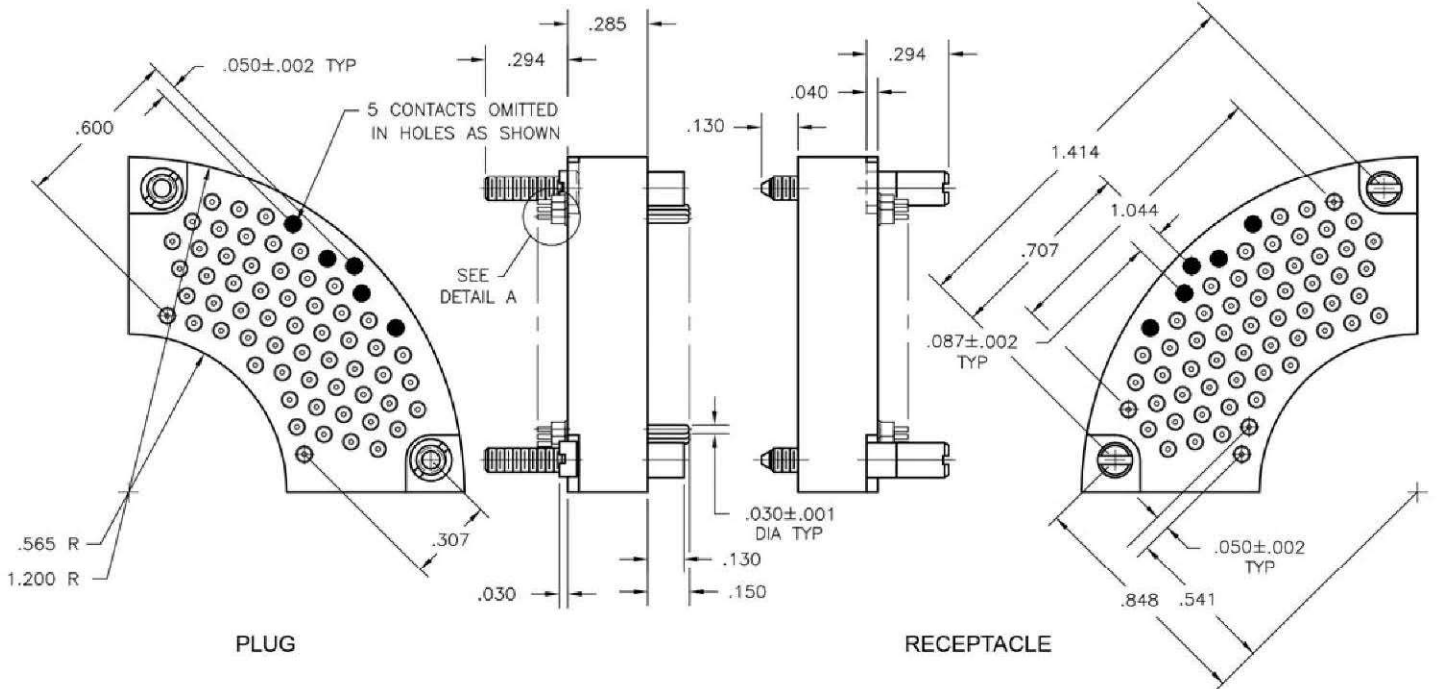
WTA - WTA

59 Contacts

WTA59PF3J594



WTA59SAF3JT594



DETAIL A



PLUG		RECEPTACLE		PLUG:	WTA 59	PF3	J594
				RECEPTACLE:	WTA 59	SAF3	JT594
					XXX XX	XXXX	XXXXX
SERIES							
WTA Plug, straight		WTA Receptacle, straight					
SIZE							
59 Number of contacts		59 Number of contacts					
CONTACTS							
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:					
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)				
PF3	Pin, straight, flex circuit, .050"	SAF3	Socket, straight, flex circuit, .050"				
PF6	Pin, straight, flex circuit, .093"	SAF6	Socket, straight, flex circuit, .093"				
HARDWARE							
J594 Fixed jacksockets		JT594 Turning jackscrews, slot head					
		JTB594 Turning jackscrews, 5/64" internal hex head					
OPTIONS							
• The connector is loaded with 59 contacts in a 64 position quarter round insulator (-594). • Insulator: glass filled nylon per ASTM-D4066. • Not recommended for use with lead free solder process. • To order connector without hardware, leave hardware designator out of part number. Example: WTA59SAF3-594.							

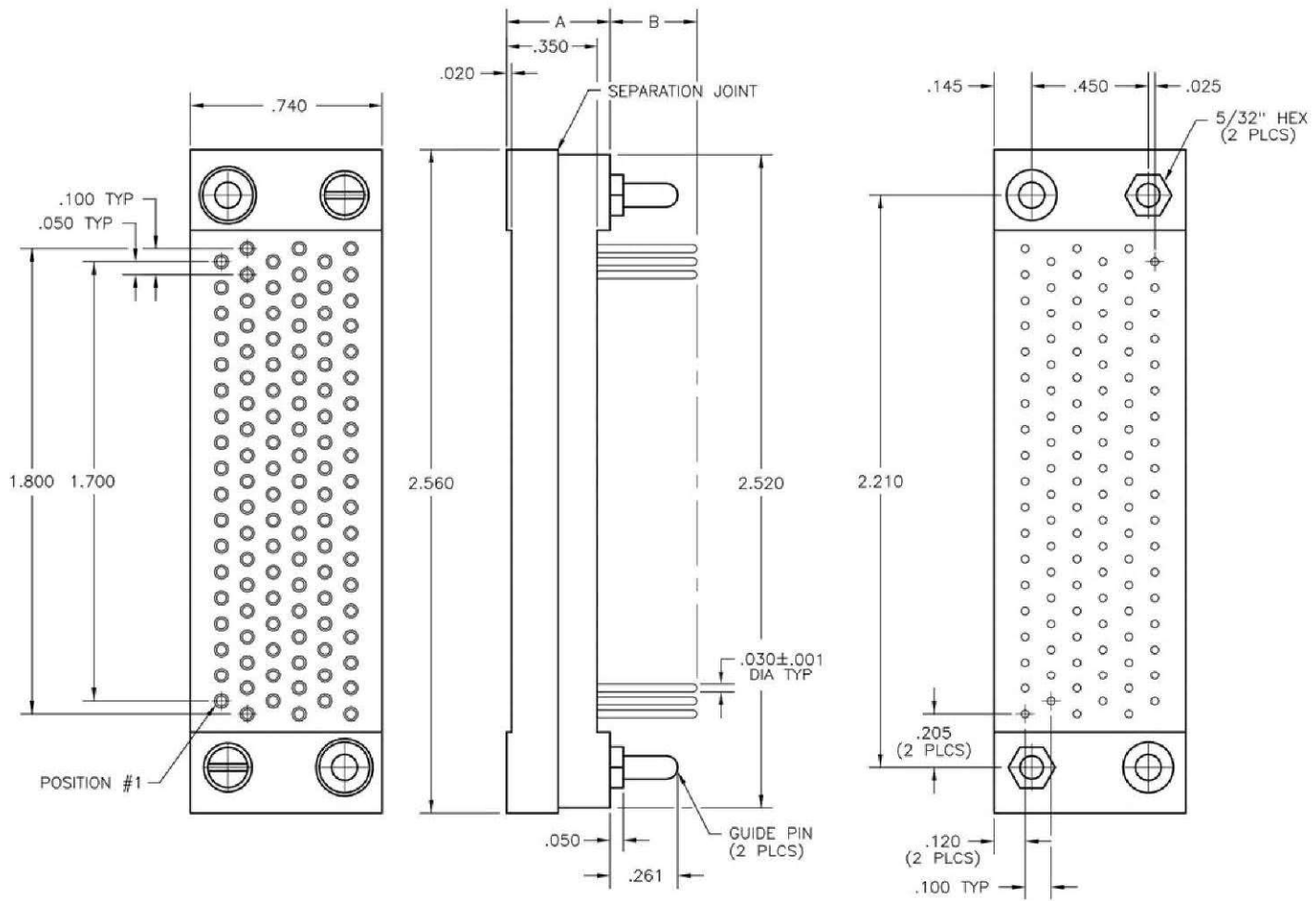
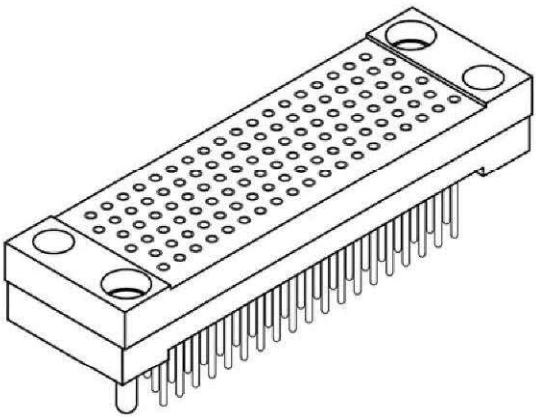


**MISC
CONNECTORS
Stackable
Board to Board**

.100"

WE

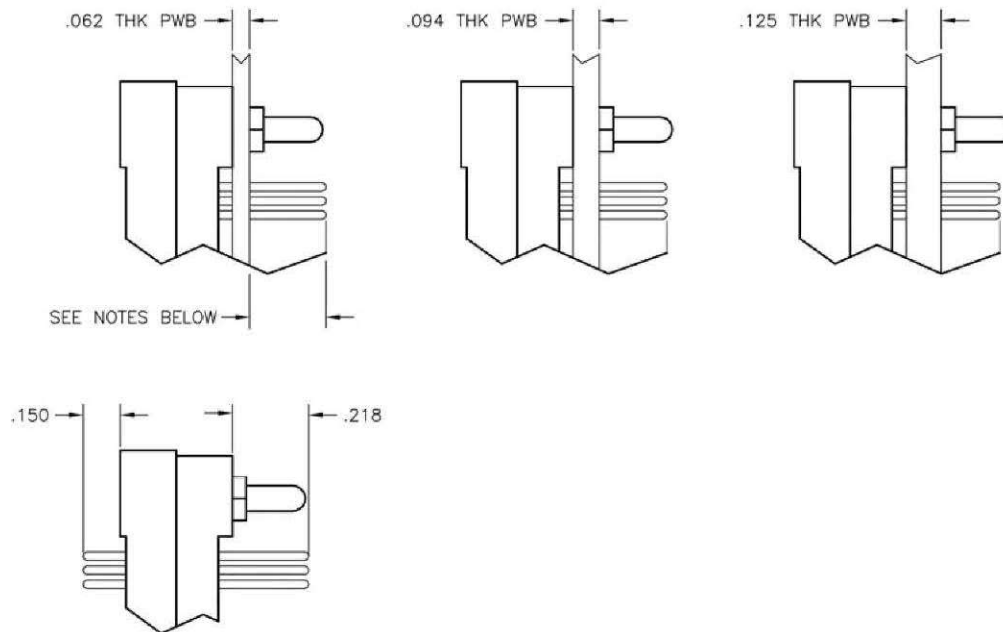
111 Contacts



DIMENSIONS			
STYLE	A	B ± .015	TYPE
WEA	.400	.335	STACKABLE
WEB	.450	.130	MOTHER BOARD
WEB	.450	.335	STACKABLE
WEC	.495	.335	STACKABLE

WEA 111 111A SP21 GB
XXX XXX XXXX XXXX XX

SERIES					
WEA	Molding height .400"				
WEB	Molding height .450"				
WEC	Molding height .495"				
SIZE					
111	Number of positions				
LOADING					
111A	Fully loaded				
CONTACTS					
TYPE CONTACTS/TERMINATIONS:					
SP21	Socket, stackable, .335" termination length				
SP9	Socket, dip solder, .130" termination length				
PP14	Pin, stackable, .218" termination length (WEB Only)				
HARDWARE					
GA	Guide set, motherboard				
GB	Guide set, stackable				



WEB111-111APP14GB

Notes:

Dimensions "A" & "B" represent current configurations. Board thickness information is for reference only. Contacts are individually replaced by removing the guide pins and screws. Molding halves will separate at the designated joint.

For Stackable Applications:

Minimum contact termination length to be .190" beyond PWB for minimum recommended mating in this series. Maximum contact termination length to be .250" beyond PWB.

For Mother Board Applications:

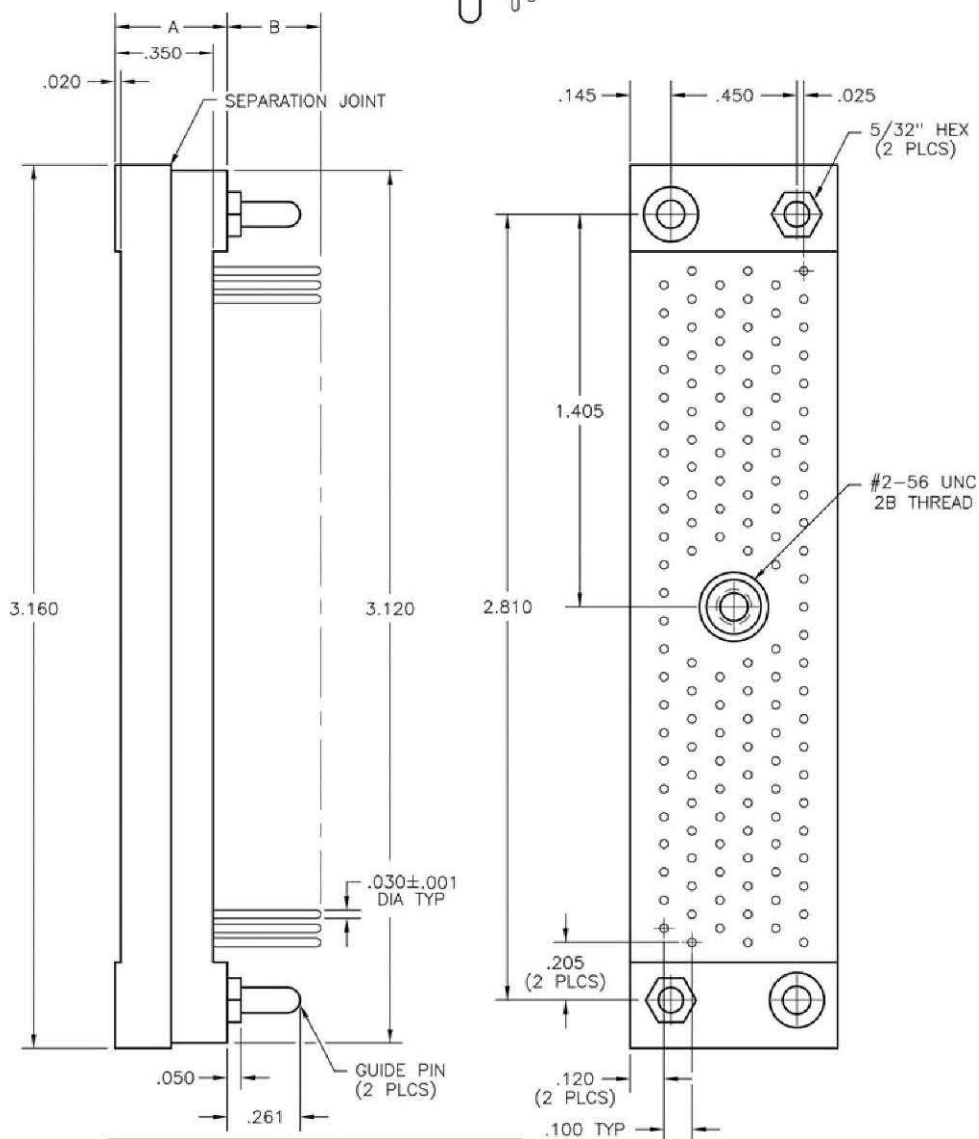
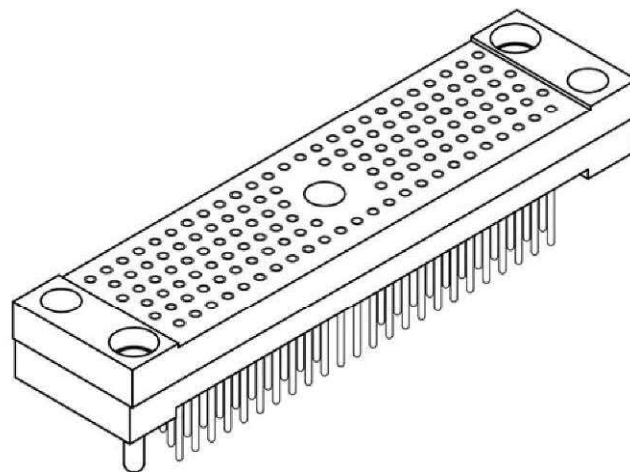
Termination lengths typically extend .047" beyond PWB (example: a .062" board would typically require a .109" termination length, dimension "B").



WE

Technical drawing of a rectangular plate with the following dimensions and features:

- Overall width: .740
- Overall height: 2.400
- Internal height dimension: 2.300
- Top edge features: Two circular holes, each with a diameter of .100 TYP and a thickness of .050 TYP.
- Bottom edge features: Two circular holes, each with a diameter of .100 TYP and a thickness of .050 TYP.
- Central feature: A circular hole with a diameter of .100 TYP and a thickness of .050 TYP.
- Position #1: A specific location on the bottom edge, indicated by a leader line.

REV C
CTW085

www.airborn.com
(512) 863-5585

"W" Series Connectors
W-87

WEA 135 135A SP21 GB
XXX XXX XXXX XXXX XX

SERIES

WEA Molding height .465"
WEB Molding height .500"
WEC Molding height .740"

SIZE

135 Number of positions

LOADING

135A Fully loaded

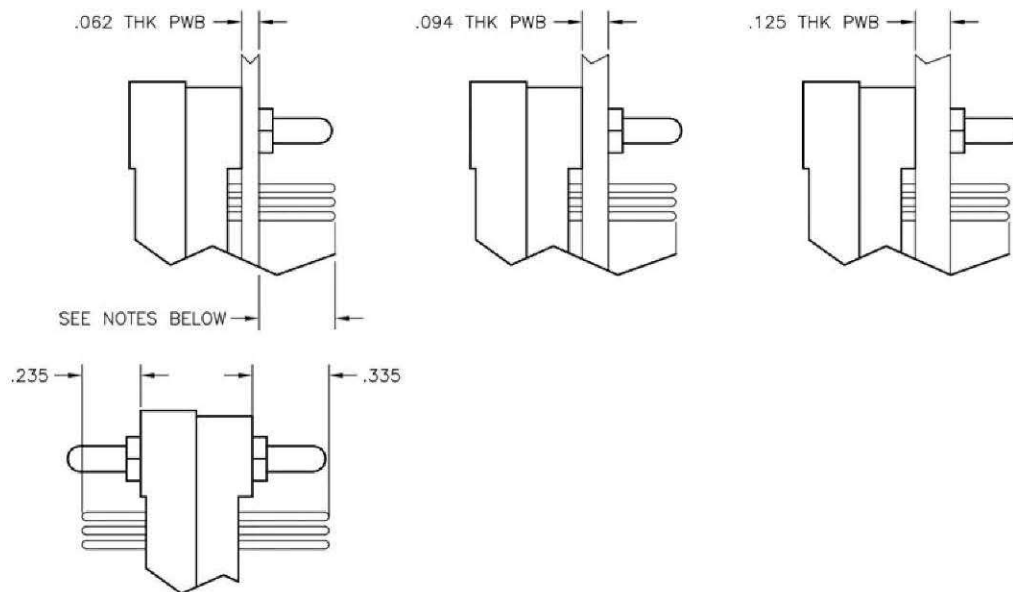
CONTACTS

TYPE CONTACTS/TERMINATIONS:

SP21 Socket, stackable, .335" termination length
SP9 Socket, dip solder, .130" termination length
PP21 Pin, stackable, .335" termination length (WEC only)

HARDWARE

GA Guide set, motherboard
GB Guide set, stackable
GC Guide set, stackable (Both sides, WEC only)



WEC135-135APP21GC

Notes:

Dimensions "A" & "B" represent current configurations. Board thickness information is for reference only. Contacts are individually replaced by removing the guide pins and screws. Molding halves will separate at the designated joint.

For Stackable Applications:

Minimum contact termination length to be .190" beyond PWB for minimum recommended mating in this series.
Maximum contact termination length to be .250" beyond PWB.

For Mother Board Applications:

Termination lengths typically extend .047" beyond PWB (example: a .062" board would typically require a .109" termination length, dimension "B").

"WB" SERIES - .050"
MIL-C-55302



Contents

"WB" Series
.050" Rectangular Plastic Board Level Connectors

WB-1	Contents	
WB-2	Specifications	
WB-3	Performance	
WB-4	Part number description	
	2-Row Connectors - PC Card or SMT to Board, Sizes: 20-132	
WB-5	WB	Plug, right angle, with mounting ears
	WB	Receptacle, straight, with mounting ears
WB-7	WBB, WBA	Plug, straight, surface mount, with mounting ears
	WB	Receptacle, straight, with mounting ears
WB-9	Hardware	
WB-10	WB	Board layout - plug, right angle
WB-11	WB	Board layout - receptacle, straight
WB-12	WBB, WBA	Board layout - plug, straight, surface mount
	Military Cross Reference	
WB-13	Chart	

Specifications

Materials and Finishes *

Pin Contacts:	Phosphor Bronze per ASTM B 139
Socket Contacts:	BeCu per MIL-C-55302
Contact Finish:	Au per ASTM B 488-, SAE AMS 2422. Localized finish over MIL-C-55302
Molded Insulators:	Glass filled polyphenylene sulfide per MIL-M-24519, Type GST-40F
Keying Features:	Polarized octagonal guides can be a molded integral part of the insulator or separate stainless steel hardware.
Tolerances:	Unless otherwise specified: Fractions = $\pm 1/64$ " Decimals = $\pm .010$ " Angles = $\pm 5^\circ$

Note: AirBorn can manufacture special configurations for your exact specifications.

* = Reference the above listed specifications or an equivalent industry standard when applicable



Performance

Reference MIL-C-55302

Contact Rating:	1.5 amperes
Solderability:	Tested to MIL-STD-202, Method 208
Operating Temperature:	-65° to +125° C or -85° to +257° F
Contact Engagement Force:	2.0 oz. maximum with .0189/.0190 diameter test pin in accordance with SAE AS 31971
Contact Separation Force:	.10 oz. maximum with .0169/.0170 diameter test pin in accordance with SAE AS 31971

<u>Category:</u>	<u>Requirements:</u>	<u>Test Method Per:</u> <u>SAE AS 13441</u>
Test Voltage:	600 V, RMS, 60 Hz @ sea level 150 V, RMS, 60 Hz @ 70,000 feet	#3001
Insulation Resistance:	5,000 megohms minimum @ 500 VDC	#3003
Durability:	500 connector mating cycles	
Contact Resistance:	.0375 volt maximum drop @ 1.5 amperes - (.025 ohms)	#3004
Contact Resistance:	.0375 volt maximum drop @ 1.5 amperes -	

Part Number Description

Each part number consists of four elements: series, size (number of contacts), type of contacts, and type of hardware.

Each catalog page shows the choices available for each of these elements. By selecting one option from each category on the page, you can build a set of connectors to meet your requirements.

Each part number is identified by a combination of letters and/or numbers of varying lengths. These numbers are written together without spaces or punctuation.

Series:

The series letters identify the connector body style. Follow choices on each catalog page for series numbers.

Size:

The size is determined by the number of contacts in the connector, and is an integral part of the part number. Order only sizes shown on the catalog page unless otherwise noted.

Contacts:

Each page also identifies all contact options for a given connector.

Hardware:

Hardware options are shown on each catalog page. Follow the choices for each connector.

Note:

Each page is as comprehensive as possible. However, if you do not find a particular connector size or option, please contact the factory for further assistance.

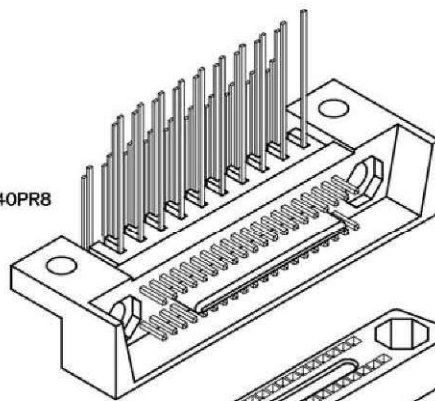


2 • ROW PC Card to Chassis or Board .050"

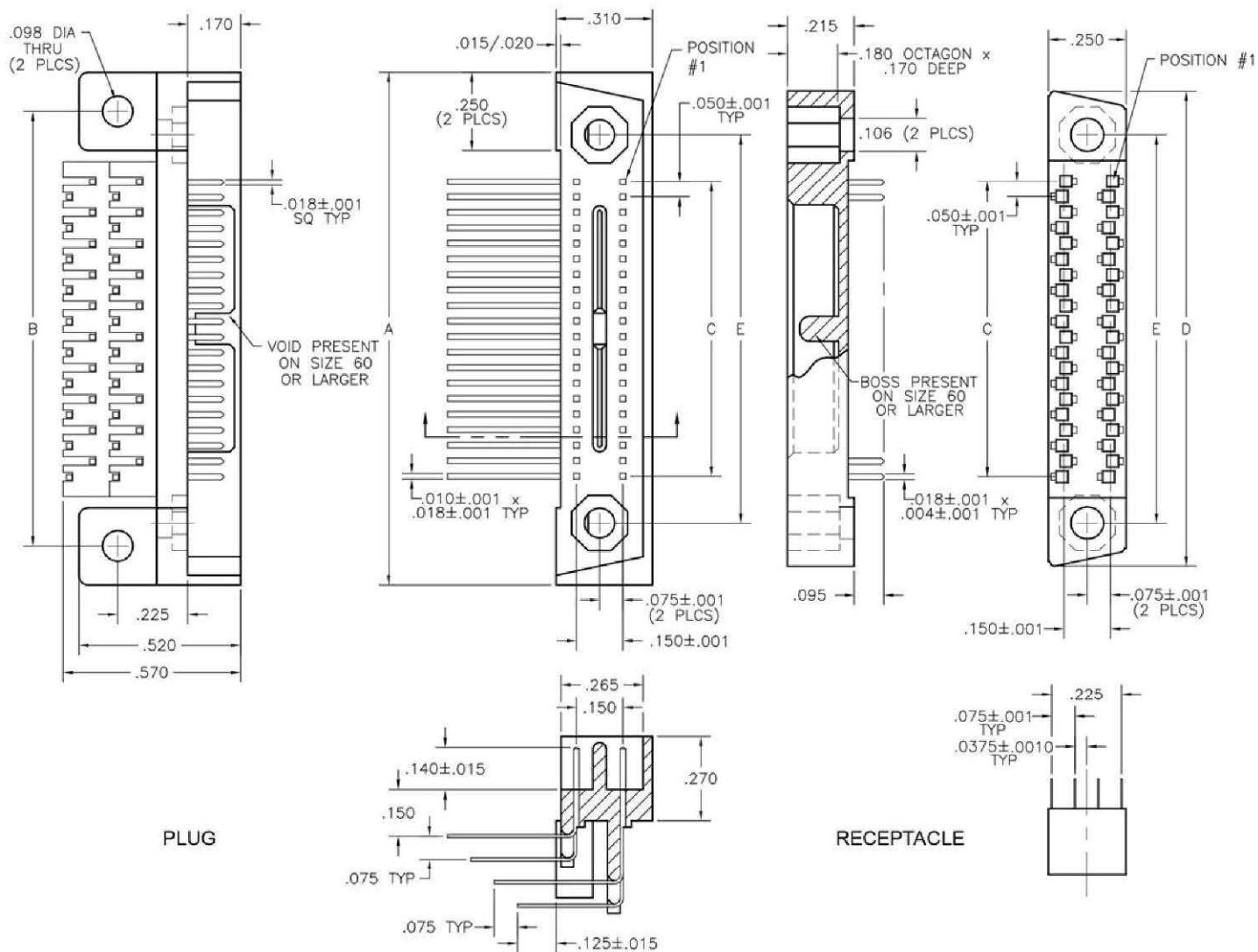
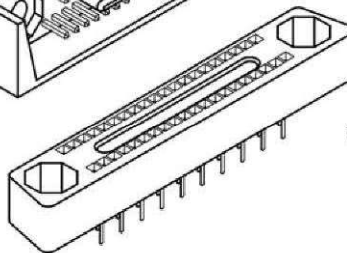
WB - WB

20 thru 132 Contacts

WB40PR8



WB40SD6





PLUG		RECEPTACLE		PLUG: WB40PR8
				RECEPTACLE: WB40SD6
				XXXXXXXXXXXX
SERIES				
WB 2 row, right angle, plug, with mounting ears		WB 2 row, straight, receptacle, with mounting ears		
SIZE				
20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132		20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132		
CONTACTS				
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:		
PR8 Pin, right angle, dip solder, .125"		SD6 Socket, straight, dip solder, .095"		
		SD9 Socket, straight, dip solder, .140"		
		SD12 Socket, straight, dip solder, .190"		
		SD19 Socket, straight, dip solder, .300"		
HARDWARE				
STYLE OF HARDWARE: (See WB-9)		STYLE OF HARDWARE: (See WB-9)		
K*_* Integral keying guides, polarized		K*_* Integral keying guides, polarized		
KY*_* Stainless steel keying guides, polarized		KY*_* Stainless steel keying guides, polarized		
JMM 2 stainless steel fixed jackscrews		JTFF 2 stainless steel turning jackscrews		

DIMENSIONS					
SIZE	A	B	C	D	E
20	1.150	.900	.450	1.030	.750
30	1.400	1.150	.700	1.280	1.000
40	1.650	1.400	.950	1.530	1.250
50	1.900	1.650	1.200	1.780	1.500
60	2.150	1.900	1.450	2.030	1.750
70	2.400	2.150	1.700	2.280	2.000
80	2.650	2.400	1.950	2.530	2.250
90	2.900	2.650	2.200	2.780	2.500
100	3.150	2.900	2.450	3.030	2.750
110	3.400	3.150	2.700	3.280	3.000
128	3.850	3.600	3.150	3.730	3.450
132	3.950	3.700	3.250	3.830	3.550

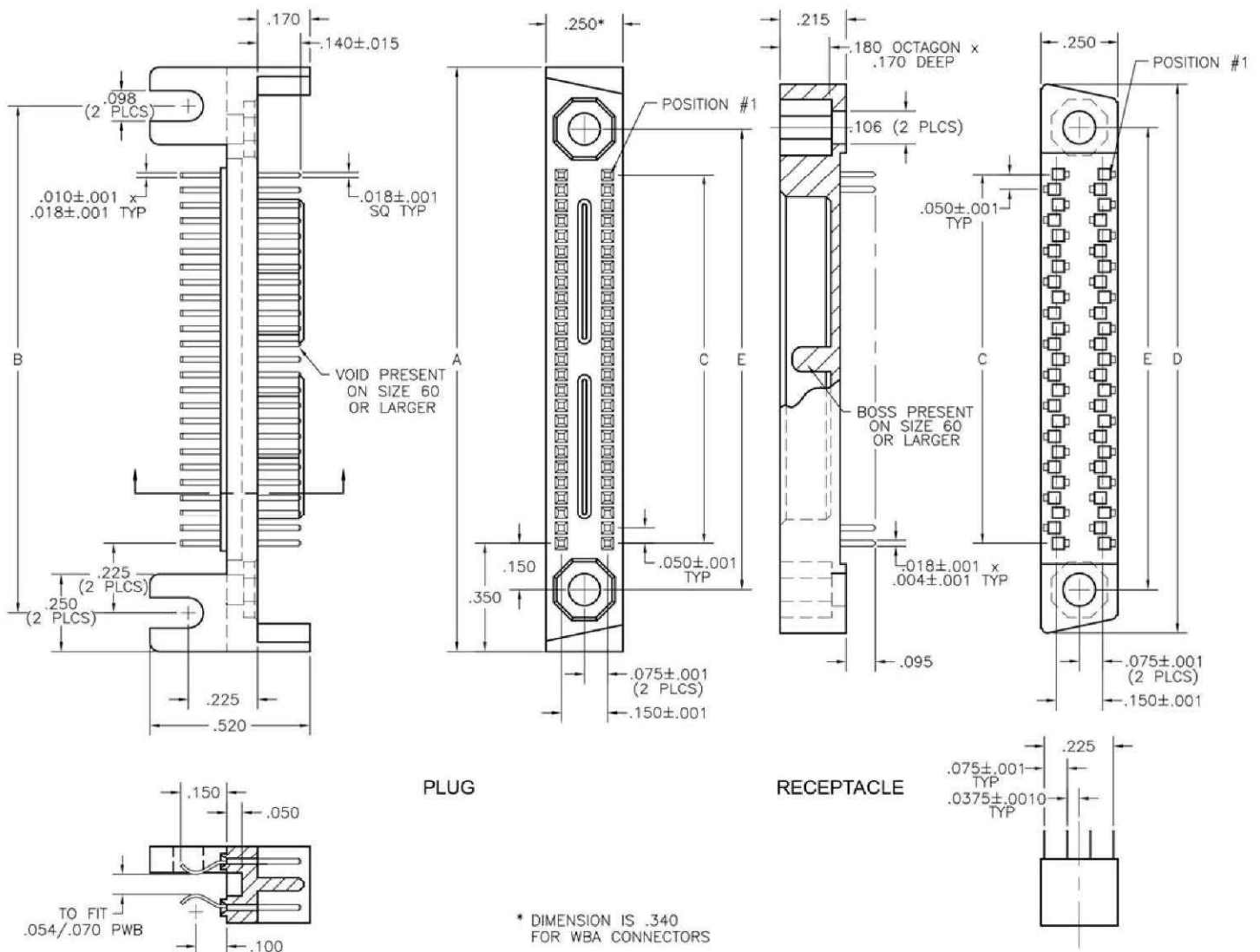
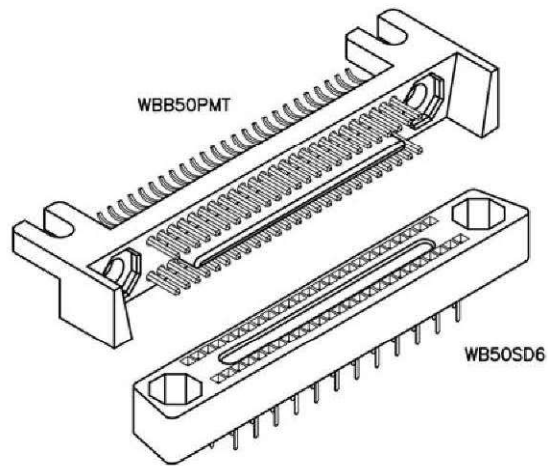
2 · ROW SMT Card to Chassis or Board

.050"

WBB - WB

WBA - WB

20 thru 132 Contacts



PLUG: WBB50PMT
 RECEPTACLE: WB50SD6
 XXXXXXXXXXXXX

PLUG

RECEPTACLE

SERIES	
WBB 2 row, SMT, plug, with mounting ears	WB 2 row, straight, receptacle, with mounting ears
WBA 2 row, SMT, plug, full skirt, with mounting ears	

SIZE	
20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132	20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132

CONTACTS	
TYPE CONTACTS/TERMINATIONS: PMT Pin, card edge SMT (Board: .054/.070)	TYPE CONTACTS/TERMINATIONS: SD6 Socket, straight, dip solder, .095" SD9 Socket, straight, dip solder, .140" SD12 Socket, straight, dip solder, .190" SD19 Socket, straight, dip solder, .300"

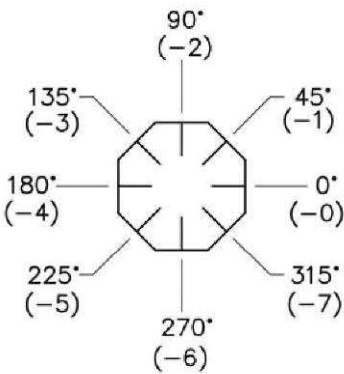
HARDWARE	
STYLE OF HARDWARE: (See WB-9) K*_ Integral keying guides, polarized KY*_ Stainless steel keying guides, polarized JMM 2 stainless steel fixed jackscrews	STYLE OF HARDWARE: (See WB-9) K*_ Integral keying guides, polarized KY*_ Stainless steel keying guides, polarized JTFF 2 stainless steel turning jackscrews

DIMENSIONS					
SIZE	A	B	C	D	E
20	1.150	.900	.450	1.030	.750
30	1.400	1.150	.700	1.280	1.000
40	1.650	1.400	.950	1.530	1.250
50	1.900	1.650	1.200	1.780	1.500
60	2.150	1.900	1.450	2.030	1.750
70	2.400	2.150	1.700	2.280	2.000
80	2.650	2.400	1.950	2.530	2.250
90	2.900	2.650	2.200	2.780	2.500
100	3.150	2.900	2.450	3.030	2.750
110	3.400	3.150	2.700	3.280	3.000
128	3.850	3.600	3.150	3.730	3.450
132	3.950	3.700	3.250	3.830	3.550

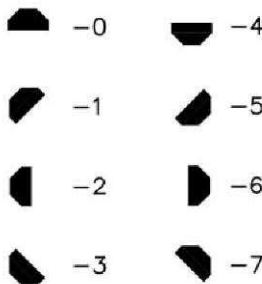
Hardware

Polarization

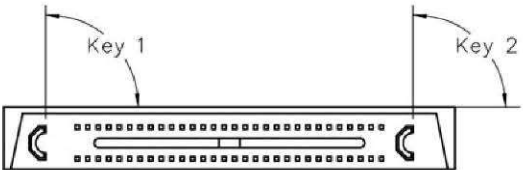
Integral Keying Guides



Polarization



Polarization Chart



Example: WB**PR8K2-2
(Plug)

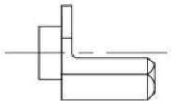


Example: WB**SD6K2-2
(Receptacle)

- Notes:
1. Each "dash" number represents 45° clocking from horizontal (0°).
 2. The first number designates "Key 1", the second number designates "Key 2".

Hardware Options:

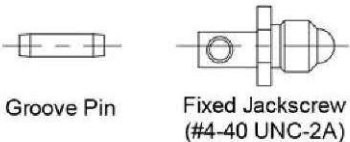
Hardware Style: KY* - *



Stainless Steel Polarized Guide

Plug	Mates with	Receptacle	Plug	Mates with	Receptacle
-0		-0	-4		-4
-1		-7	-5		-3
-2		-6	-6		-2
-3		-5	-7		-1

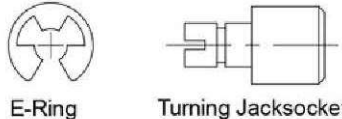
Hardware Style: JMM
(Plug only)



Groove Pin

Fixed Jackscrew
(#4-40 UNC-2A)

Hardware Style: JTFF
(Receptacle only)



E-Ring

Turning Jacksocket

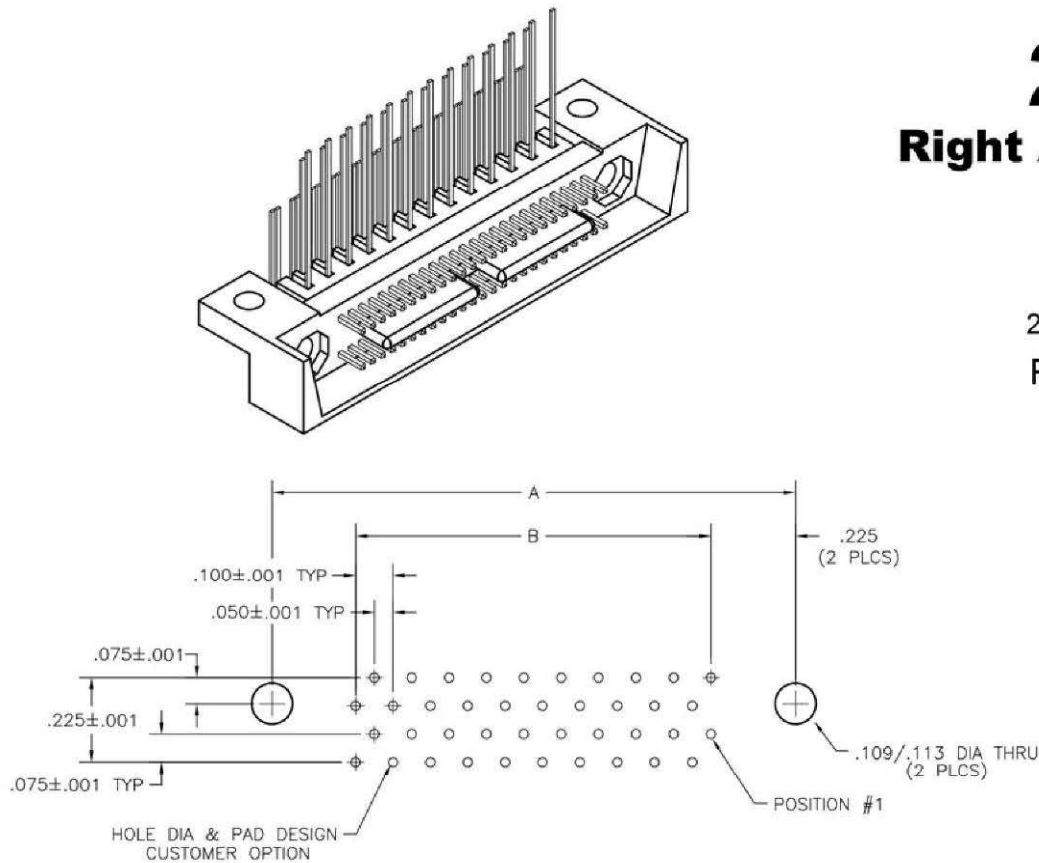
2 • ROW Right Angle PTH Plug

.050"

WB

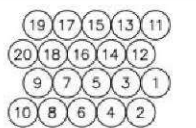
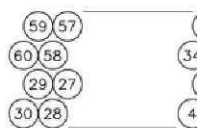
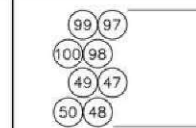
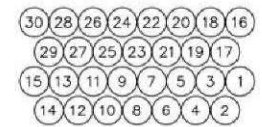
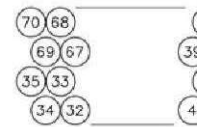
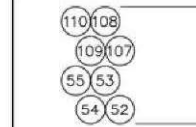
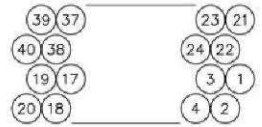
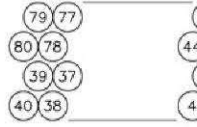
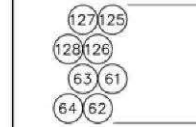
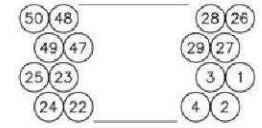
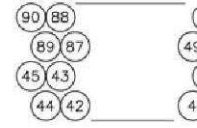
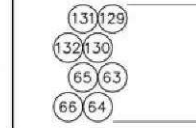
20 thru 132 Contacts

Recommended
Board Layout



DIMENSIONS		
SIZE	A	B
20	.900	.450
30	1.150	.700
40	1.400	.950
50	1.650	1.200
60	1.900	1.450
70	2.150	1.700
80	2.400	1.950
90	2.650	2.200
100	2.900	2.450
110	3.150	2.700
128	3.600	3.150
132	3.700	3.250

RIGHT ANGLE PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20		60		100	
30		70		110	
40		80		128	
50		90		132	



2 • ROW

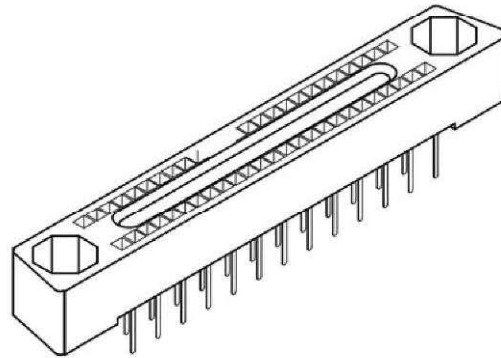
Straight PTH Rcpt

.050"

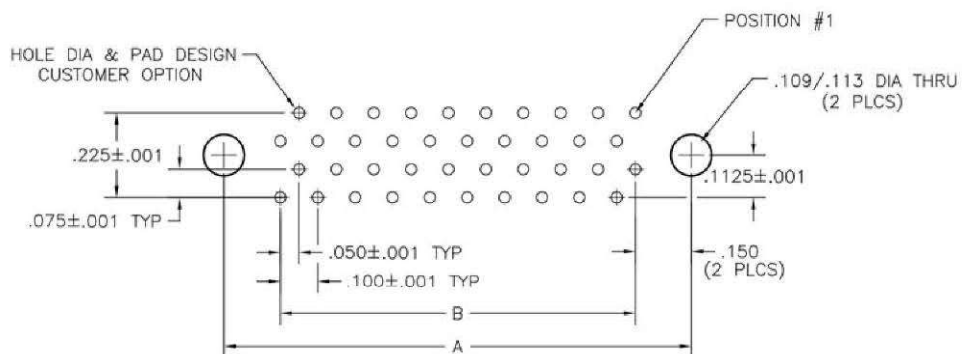
WB

20 thru 132 Contacts

Recommended
Board Layout



DIMENSIONS		
SIZE	A	B
20	.750	.450
30	1.000	.700
40	1.250	.950
50	1.500	1.200
60	1.750	1.450
70	2.000	1.700
80	2.250	1.950
90	2.500	2.200
100	2.750	2.450
110	3.000	2.700
128	3.450	3.150
132	3.550	3.250



STRAIGHT PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20		60		100	
30		70		110	
40		80		128	
50		90		132	

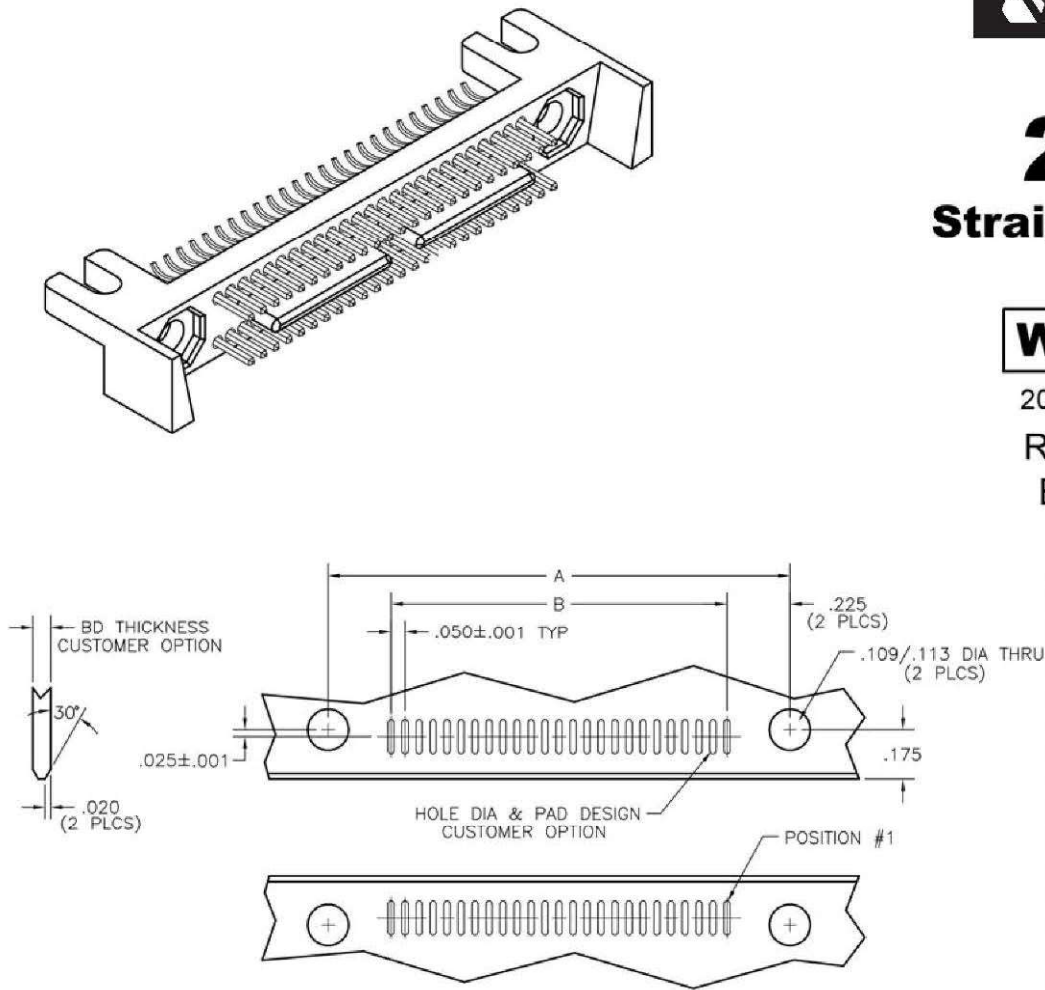
2 • ROW Straight SMT Plug

.050"

WBB, WBA

20 thru 132 Contacts

Recommended
Board Layout



DIMENSIONS		
SIZE	A	B
20	.900	.450
30	1.150	.700
40	1.400	.950
50	1.650	1.200
60	1.900	1.450
70	2.150	1.700
80	2.400	1.950
90	2.650	2.200
100	2.900	2.450
110	3.150	2.700
128	3.600	3.150
132	3.700	3.250

STRAIGHT SMT PLUG

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20	C20 >	60	C60 >	100	C100 >
	C19 >		C59 >		C99 >
	C18 >		C58 >		C98 >
	C17 >		C57 >		C97 >
	C16 >		C56 >		C96 >
	C15 >		C55 >		C95 >
	C14 >		C54 >		C94 >
	C13 >		C53 >		C93 >
	C12 >		C52 >		C92 >
	C11 >		C51 >		C91 >
30	C30 >	70	C70 >	110	C110 >
	C29 >		C69 >		C109 >
	C28 >		C68 >		C108 >
	C27 >		C67 >		C107 >
	C26 >		C66 >		C106 >
40	C40 >	80	C80 >	128	C128 >
	C39 >		C79 >		C127 >
	C38 >		C78 >		C126 >
	C37 >		C77 >		C125 >
	C36 >		C76 >		C124 >
50	C50 >	90	C90 >	132	C132 >
	C49 >		C89 >		C131 >
	C48 >		C88 >		C130 >
	C47 >		C87 >		C129 >
	C46 >		C86 >		C128 >

Military Cross Reference Chart

MIL Number	WB Series	Size	Description
M55302/117-01	WB20PR8	20	Right angle plug, 3/4 skirt
M55302/117-02	WB30PR8	30	Right angle plug, 3/4 skirt
M55302/117-03	WB40PR8	40	Right angle plug, 3/4 skirt
M55302/117-04	WB50PR8	50	Right angle plug, 3/4 skirt
M55302/117-05	WB60PR8	60	Right angle plug, 3/4 skirt
M55302/117-06	WB70PR8	70	Right angle plug, 3/4 skirt
M55302/117-07	WB80PR8	80	Right angle plug, 3/4 skirt
M55302/117-08	WB90PR8	90	Right angle plug, 3/4 skirt
M55302/117-09	WB100PR8	100	Right angle plug, 3/4 skirt
M55302/117-10	WB110PR8	110	Right angle plug, 3/4 skirt
M55302/117-11	WB128PR8	128	Right angle plug, 3/4 skirt
M55302/118-01	WBB20PMT	20	Surface mount, no skirt
M55302/118-02	WBB30PMT	30	Surface mount, no skirt
M55302/118-03	WBB40PMT	40	Surface mount, no skirt
M55302/118-04	WBB50PMT	50	Surface mount, no skirt
M55302/118-05	WBB60PMT	60	Surface mount, no skirt
M55302/118-06	WBB70PMT	70	Surface mount, no skirt
M55302/118-07	WBB80PMT	80	Surface mount, no skirt
M55302/118-08	WBB90PMT	90	Surface mount, no skirt
M55302/118-09	WBB100PMT	100	Surface mount, no skirt
M55302/118-10	WBB110PMT	110	Surface mount, no skirt
M55302/118-11	WBB128PMT	128	Surface mount, no skirt
M55302/118-12	WBA20PMT	20	Surface mount, full skirt
M55302/118-13	WBA30PMT	30	Surface mount, full skirt
M55302/118-14	WBA40PMT	40	Surface mount, full skirt
M55302/118-15	WBA50PMT	50	Surface mount, full skirt
M55302/118-16	WBA60PMT	60	Surface mount, full skirt
M55302/118-17	WBA70PMT	70	Surface mount, full skirt
M55302/118-18	WBA80PMT	80	Surface mount, full skirt
M55302/118-19	WBA90PMT	90	Surface mount, full skirt
M55302/118-20	WBA100PMT	100	Surface mount, full skirt
M55302/118-21	WBA110PMT	110	Surface mount, full skirt
M55302/118-22	WBA128PMT	128	Surface mount, full skirt
M55302/119-01	WB20SD9/12	20	Receptacle, .140 and .190 lead length
M55302/119-02	WB30SD9/12	30	Receptacle, .140 and .190 lead length
M55302/119-03	WB40SD9/12	40	Receptacle, .140 and .190 lead length
M55302/119-04	WB50SD9/12	50	Receptacle, .140 and .190 lead length
M55302/119-05	WB60SD9/12	60	Receptacle, .140 and .190 lead length
M55302/119-06	WB70SD9/12	70	Receptacle, .140 and .190 lead length
M55302/119-07	WB80SD9/12	80	Receptacle, .140 and .190 lead length
M55302/119-08	WB90SD9/12	90	Receptacle, .140 and .190 lead length
M55302/119-09	WB100SD9/12	100	Receptacle, .140 and .190 lead length
M55302/119-10	WB110SD9/12	110	Receptacle, .140 and .190 lead length
M55302/119-11	WB128SD9/12	128	Receptacle, .140 and .190 lead length
M55302/119-12	WB100SD19	100	Receptacle, .300 lead length
M55302/119-13	WB110SD19	110	Receptacle, .300 lead length
M55302/119-14	WB128SD12	128	Receptacle, .190 lead length

"W" SERIES ACCESSORIES



Contents

"W" Series

Hardware, Contacts and Accessories

Accessories

WA-2	Floating Mounts
WA-4	Face Seal Gaskets for WTA-WTB Series
WA-5	Face Seal Gaskets for WG-WGA-WGE Series
WA-6	Hoods for WTA, WTAX Series
WA-7	Hoods for WTD, WTDX Series
WA-8	Adapter Sleeve, Coax Removal Tool, Extension Nuts
WA-9	Nut Spanner Wrench, Crimp & Removal Tools

Contacts

WA-10	#22 Pin Contacts, #22 Socket Contacts
WA-11	Crimp Removable Contacts, Coax Contacts

Hardware

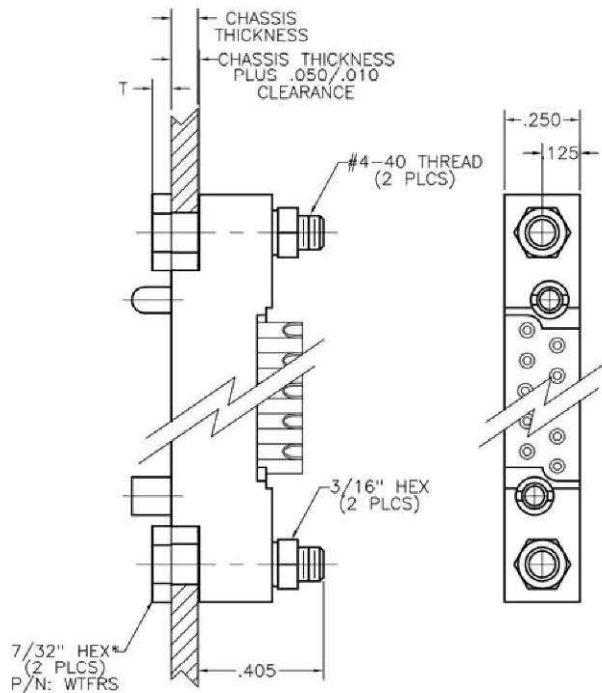
WA-12	Fixed Jacksets, Turning Jacksets
WA-14	Guide Sets
WA-15	Hardware Availability Chart
WA-17	Polarization - "D" Shaped Guide Sets
WA-18	Polarizing Pin Application

Military Cross Reference

WA-19	Military Cross Reference Chart
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Accessories

Floating Mounts for WTB-WTK Receptacles



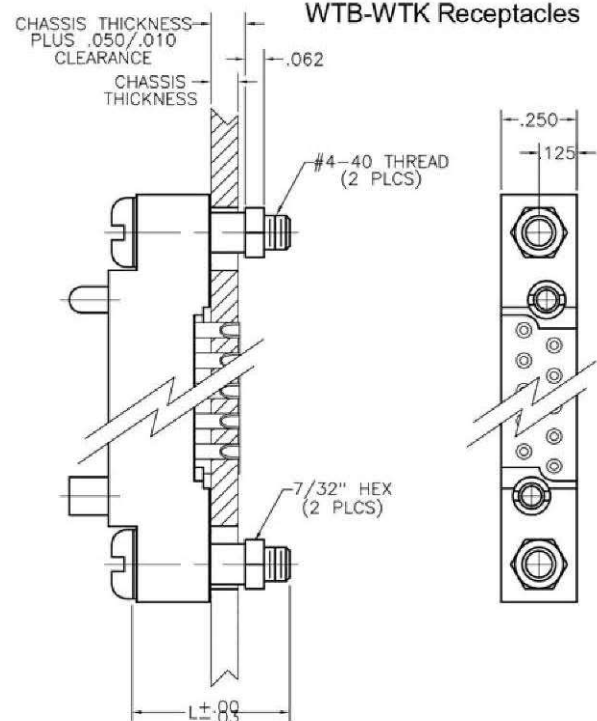
FLOATING MOUNT
REAR

DIMENSIONS			
CHASSIS THICKNESS	MOUNTING SCREW HEX HEAD	MOUNTING SCREW ROUND HEAD	T
.062	WTFRS062	WTFRAS062	.062
.093	WTFRS093	WTFRAS093	.062
.125	WTFRS125	WTFRAS125	.050

CONNECTOR SIZES 10-70 REQUIRE 2 WTFRS SCREW ASSEMBLIES.

CONNECTOR SIZES OVER 70 REQUIRE 2 WTFRS ASSEMBLIES AND ONE WTFRA SCREW ASSEMBLY.

* - 7/32 DIA ROUND HEAD - WTFRAS
CENTER POSITION ON SIZES OVER 70

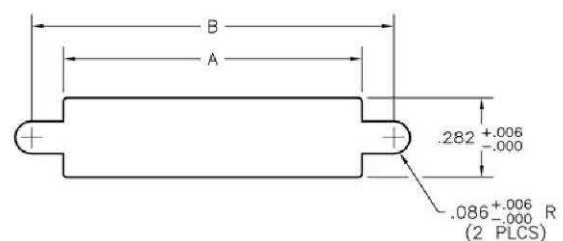


FLOATING MOUNT
FRONT

DIMENSIONS			
CHASSIS THICKNESS	BUSHING	QTY. REQ. FOR SIZES 10-70	L
.062	WTFBS062	2	.50
.093	WTFBS093		.50
.125	WTFBS125		.56

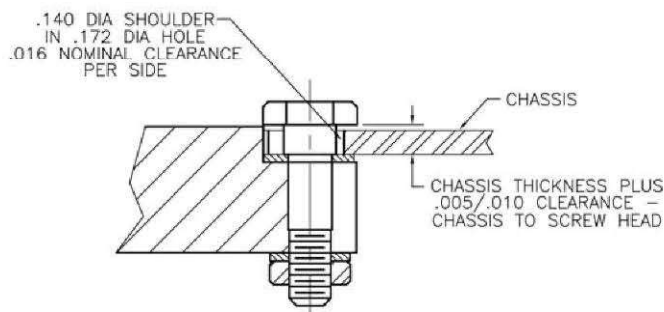
CHASSIS CUTOUT WTB-WTK, SIZES 10-70

DIMENSIONS					
SIZE	A +.006 -.000	B ±.003	SIZE	A +.006 -.000	B ±.003
10	.882	1.100	44	2.582	2.800
14	1.082	1.300	50	2.882	3.100
20	1.382	1.600	54	3.082	3.300
24	1.582	1.800	56	3.182	3.400
26	1.682	1.900	60	3.382	3.600
30	1.882	2.100	66	3.682	3.900
36	2.182	2.400	70	3.882	4.100
40	2.382	2.600			

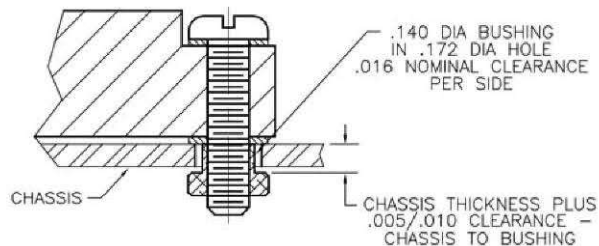
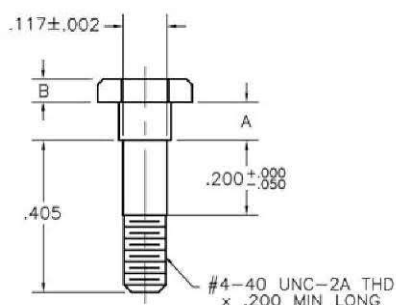


Accessories

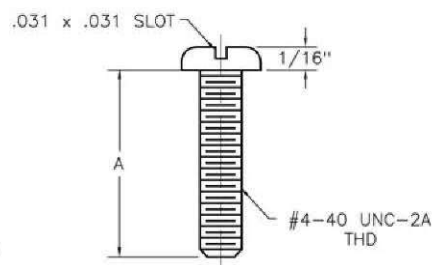
Floating Mounts for WTB-WTK Receptacles



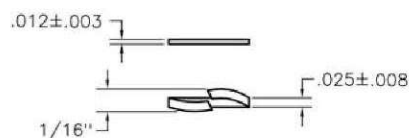
**FLOATING STUD,
HEX HEAD**
7/32±.005 HEX HEAD



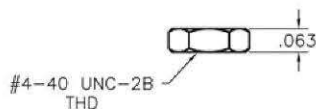
**FLOATING STUD,
ROUND HEAD**
.212±.007 DIA HEAD



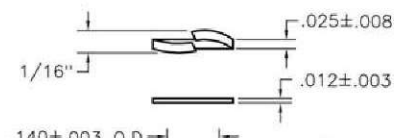
FLAT WASHER
.215 O.D. x .120 I.D.
SPLIT LOCKWASHER
.212±.015 O.D. x .115 I.D.



HEX NUT
3/16±.005

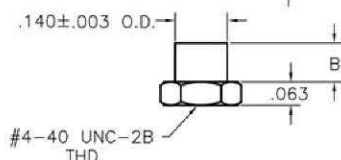


SPLIT LOCKWASHER
.212±.015 O.D. x .115 I.D.



FLAT WASHER
.215 O.D. x .120 I.D.

FLOATING BUSHING
7/32" HEX



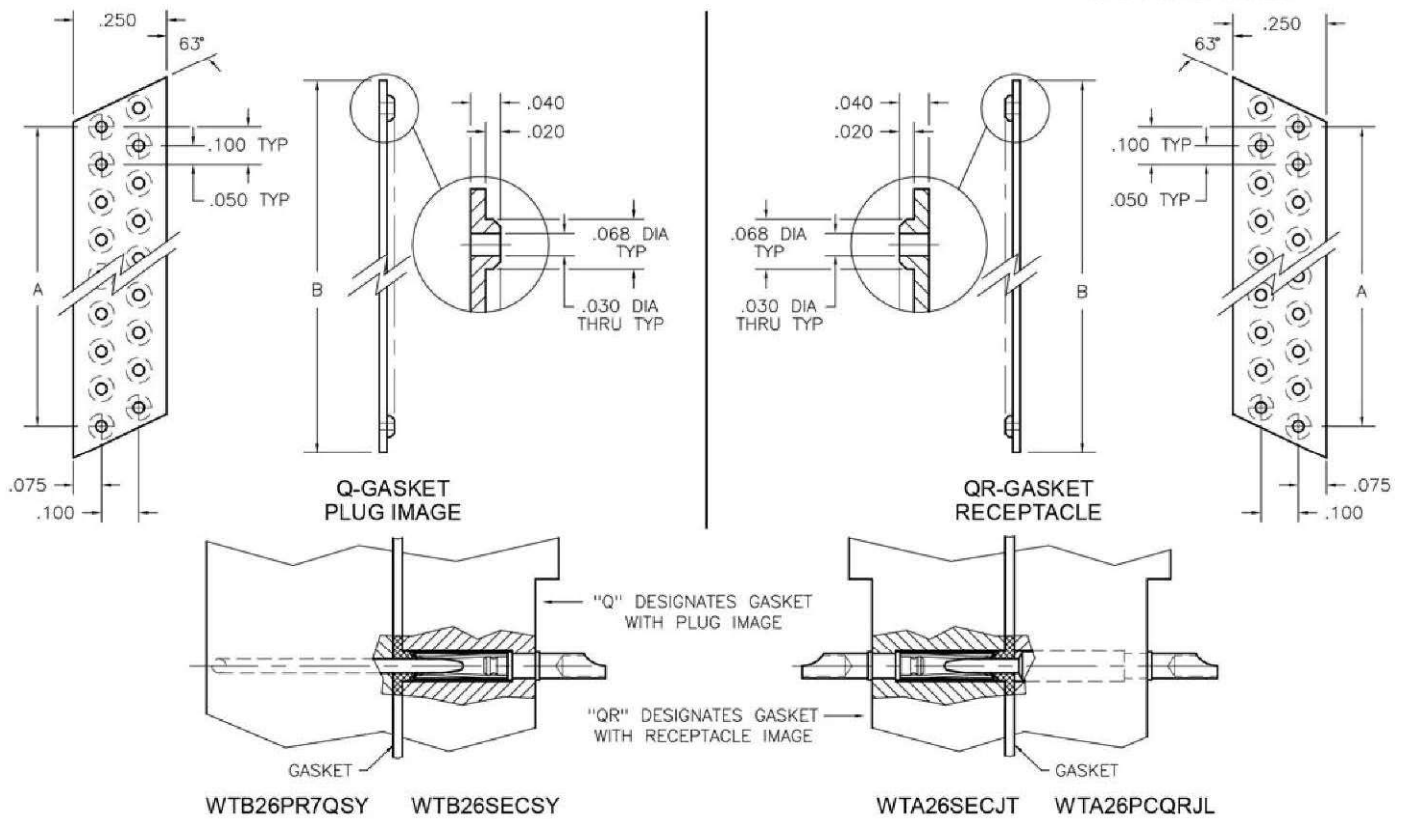
PART NUMBER	A $^{+.000}_{-.005}$	B $^{+.000}_{-.005}$	CHASSIS THICKNESS
WTFRS062	.073	.062	.062
WTFRS093	.104	.062	.093
WTFRS125	.135	.050	.125

PART NUMBER	A $^{+.000}_{-.030}$	B $^{+.000}_{-.003}$	CHASSIS THICKNESS
WTFFS040	.439	.051	.040
WTFFS062	.500	.073	.062
WTFFS093	.500	.104	.093
WTFFS125	.562	.135	.125
WTFFS200	.625	.210	.200

PART DESCRIPTION	MATERIAL SPECIFICATION	FINISH SPECIFICATION	WTFRS	WTFRAS	WTFFS
FLOATING STUD 7/32" DIA, ROUND HEAD	SST SERIES 300 PER ASTM-A582 AND/OR QQ-S-763/766	PASSIVATE PER SAE AMS- QQ-P-35 OR ASTM-A967		X	
FLOATING STUD 7/32" HEX HEAD			X		
FLOATING BUSHING 7/32" HEX HEAD					X
MOUNTING SCREW 7/32" DIA, ROUND HEAD					X
#4 LOCKWASHER			X	X	X
#4 FLAT WASHER			X	X	X
HEX NUT #4-40			X	X	

Accessories

Face Seal Gaskets for
WTA-WTB Series



FOR CONNECTOR CODE	USE TWO GASKETS CODE NUMBER
WTB90PR	WTB45Q
WTB100PR	WTB50Q
WTB120PR	WTB60Q

NOTES:

1. DUE TO THE ELASTICITY OF SILICONE RUBBER, A & B DIMENSIONS ARE FOR REFERENCE ONLY. THE ACCUMULATIVE TOLERANCE FOR LINEAR HOLE CENTERS SHALL BE NO MORE THAN ± 0.030 FOR EACH INCH OF SPACE BETWEEN END HOLES.
2. MATERIAL: SILICONE RUBBER, CLASS 2A OR 2B, GRADE 50 PER A-A-59588.
3. FOR USE WITH MALE (PIN) CONNECTORS ONLY.
4. CHECK SALES DEPARTMENT FOR COMBINATION CONNECTOR AND GASKET CODES. EXAMPLE: WTB26PR7QSY-1.

CODE CHART						
NO. OF CONTACTS	A	B	GASKET CODE (PLUG IMAGE)	FOR USE WITH	GASKET CODE (RCPT IMAGE)	FOR USE WITH
10	.400	.625	WTB10Q	WTA-P-JT JTA JTL	WTB10QR	WTA-P-J JL
14	.600	.825	WTB14Q		WTB14QR	
20	.900	1.125	WTB20Q		WTB20QR	
24	1.100	1.325	WTB24Q		WTB24QR	
26	1.200	1.425	WTB26Q		WTB26QR	
30	1.400	1.625	WTB30Q		WTB30QR	
36	1.700	1.925	WTB36Q		WTB36QR	
40	1.900	2.125	WTB40Q		WTB40QR	
44	2.100	2.325	WTB44Q		WTB44QR	
50	2.400	2.625	WTB50Q		WTB50QR	
54	2.600	2.825	WTB54Q	WTAV-P-SY SYL	WTB54QR	WTAX-P-SY SYL
56	2.700	2.925	WTB56Q		WTB56QR	
60	2.900	3.125	WTB60Q		WTB60QR	
66	3.200	3.425	WTB66Q		WTB66QR	
70	3.400	3.625	WTB70Q			
				WTB-PR-SY		
				WTBV-P-SY		

Accessories

Face Seal Gaskets for
WG-WGA-WGE Series

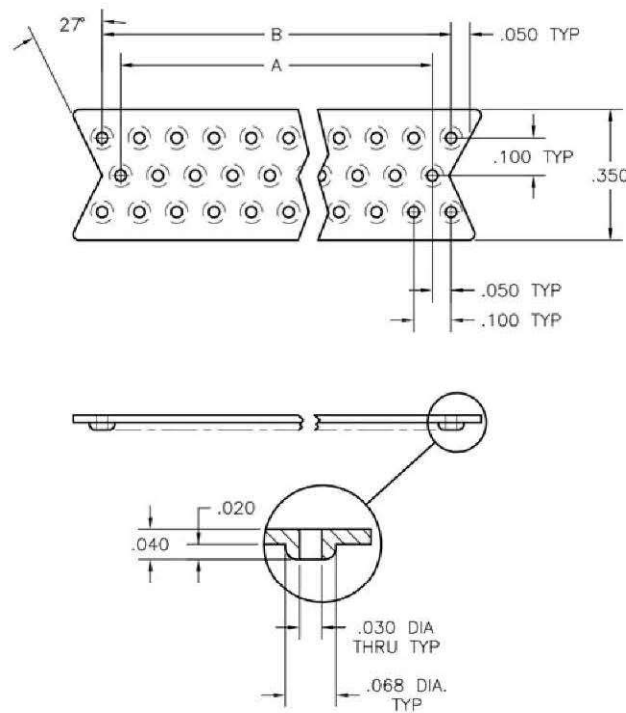


FIGURE 1

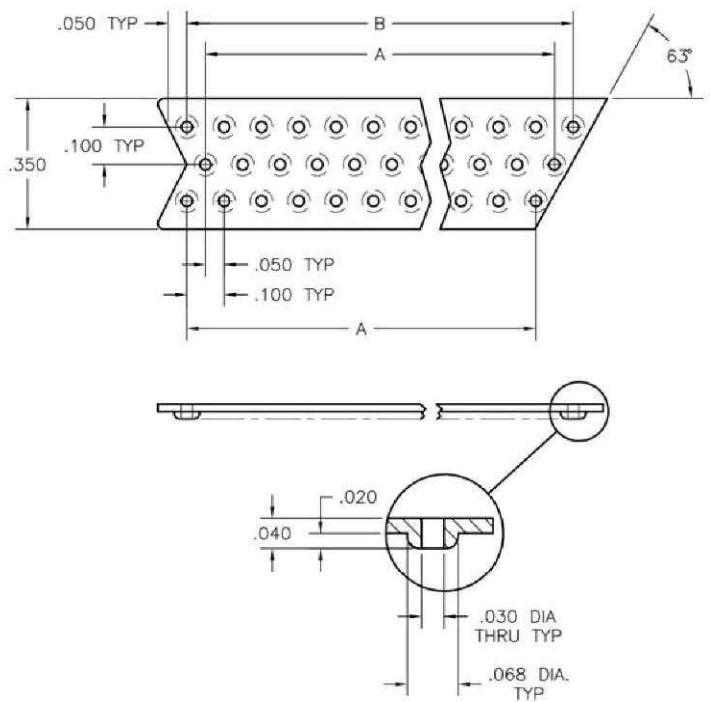


FIGURE 2

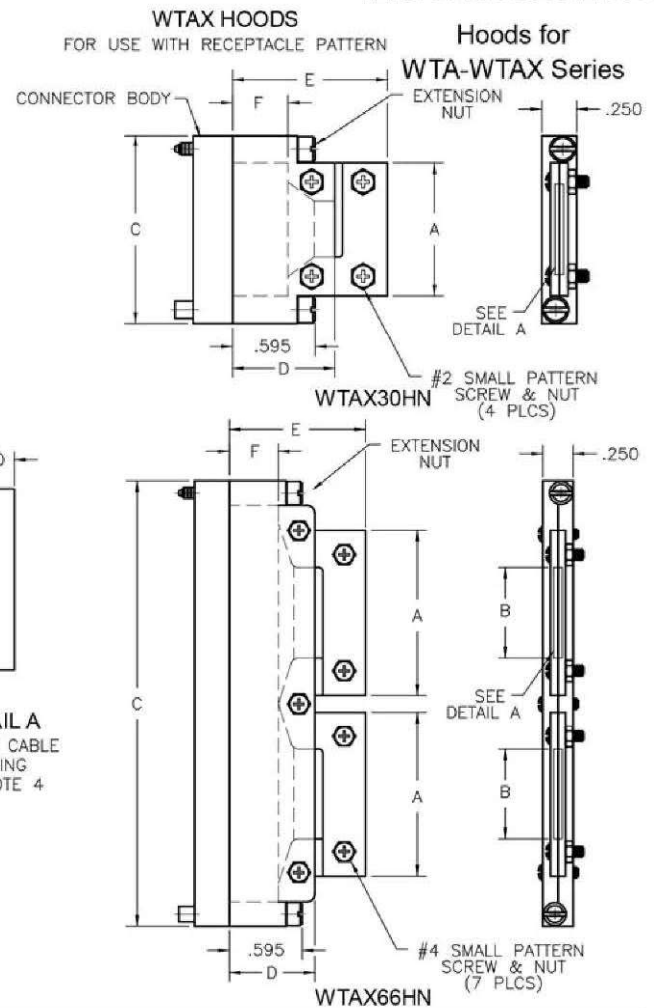
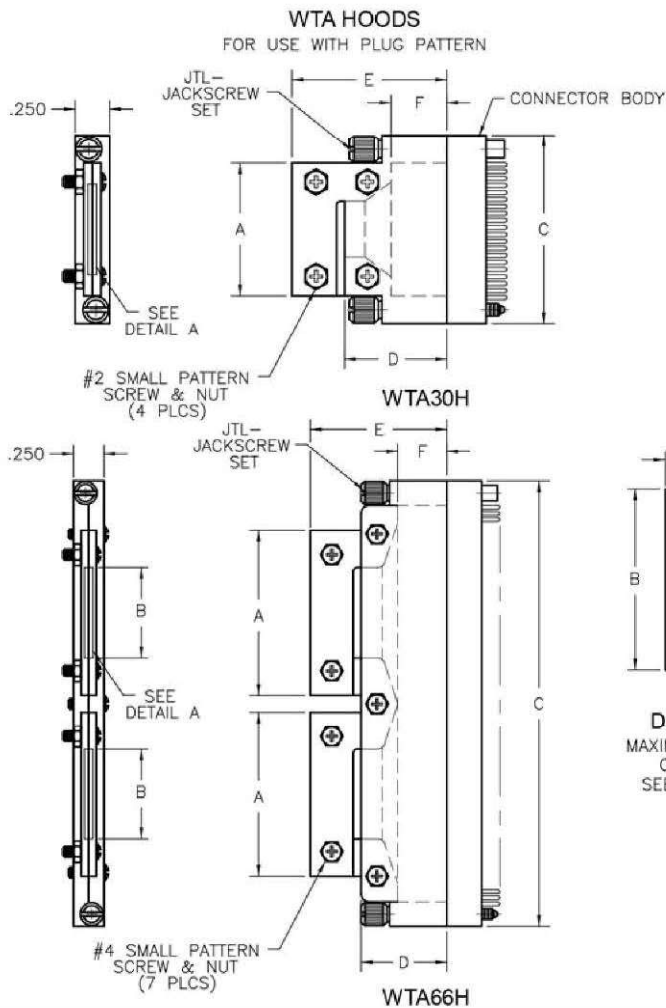
NOTES:

1. DUE TO THE ELASTICITY OF SILICONE RUBBER, A & B DIMENSIONS ARE FOR REFERENCE ONLY. THE ACCUMULATIVE TOLERANCE FOR LINEAR HOLE CENTERS SHALL BE NO MORE THAN ± 0.030 FOR EACH INCH OF SPACE BETWEEN END HOLES.
2. MATERIAL: SILICONE RUBBER, CLASS 2A OR 2B, GRADE 50 PER A-A-59588.
3. FOR USE WITH MALE (PIN) CONNECTORS ONLY.
4. CHECK SALES DEPARTMENT FOR COMBINATION CONNECTOR AND GASKET CODES. EXAMPLE: WG80PR7QSY-1.

CODE CHART					
NO. OF CONTACTS	A	B	FIGURE	GASKET CODE	FOR USE WITH
50	1.500	1.600	1	WG50Q	WG-P-JT JTA JTL
80	2.500	2.600	1	WG80Q	
92	2.900	3.000	1	WG92Q	
61	1.900	2.000	2	WG61Q	WGV-P-SY SYL
52	1.600	1.700	2	WG52Q	
62	1.900	2.000	1	WG62Q	WG-PR-SY
70	2.200	2.300	1	WG70Q	

FOR CONNECTOR CODE	USE TWO GASKETS CODE NUMBER
WGA122PR	WG61Q
WG104PR	WG52Q
WG160PR	WG80Q

Accessories



CODE CHART																	
WTA HOODS, PLUG IMAGE						WTAX HOODS, RECEPTACLE IMAGE						PART NO. DESIGNATION					
PART NO.	A	B ^{+0.015} _{-.025}	C	D	E	F	PART NO.	A	B ^{+0.015} _{-.025}	C	D	E	F	SERIES	SIZE	HOOD DESIGNATION	FOR HARDWARE TYPE
WTA20H	.950	.400	1.350	.700	1.115	.400	WTAX30H	1.450	.800	1.850	.700	1.115	.400	WTA	20 THRU 70	H	JTL — LONG TURNING JACKSCREW SET
WTA30H	1.450	.800	1.850				WTAX36H	1.300	.750	2.150							
WTA36H	1.300	.750	2.150				WTAX40H	1.500	.950	2.350							
WTA40H	1.500	.950	2.350				WTAX44H	1.700	1.150	2.550							
WTA44H	1.700	1.150	2.550				WTAX50H	2.000	1.450	2.850							
WTA50H	2.000	1.450	2.850				WTAX54H	1.950	1.400	3.050							
WTA54H	2.200	1.650	3.050				WTAX56H	2.060	1.500	3.150							
WTA56H	2.060	1.500	3.150				WTAX60H	1.240	.700	3.350							
WTA60H	1.240	.700	3.350				WTAX66H	1.345	.735	3.650							
WTA66H	1.350	.735	3.650				WTAX70H	1.445	.885	3.850							
WTA70H	1.445	.885	3.850											WTAX	30 THRU 70	HN	J — FIXED JACKSCREW SET SY — GUIDE SET

NOTES:

- DIMENSIONS ARE SYMMETRICAL ABOUT CENTER LINE.
- HOODS ARE SUPPLIED UNASSEMBLED.
- HOOD MATERIAL: POLYETHYLENE, HIGH DENSITY CLAMPING SCREWS AND NUTS: STAINLESS STEEL THE TOP CLAMPS ARE FLEXIBLE TO ACCOMMODATE MAXIMUM CABLE BUNDLE.
- CHECK WITH SALES DEPARTMENT FOR SIZES NOT LISTED.
- SCREWS SUPPLIED ARE CROSS-RECESS ONLY.
- TOLERANCES: $\pm .015$
- SIZES 20-30 USE #2 SMALL PATTERN SCREW & NUT.
- SIZES 36-70 USE #4 SMALL PATTERN SCREW & NUT.
- HOODS CANNOT BE USED ON CONNECTORS SPECIFYING THE -C45 OPTION CODE.

EXAMPLES:

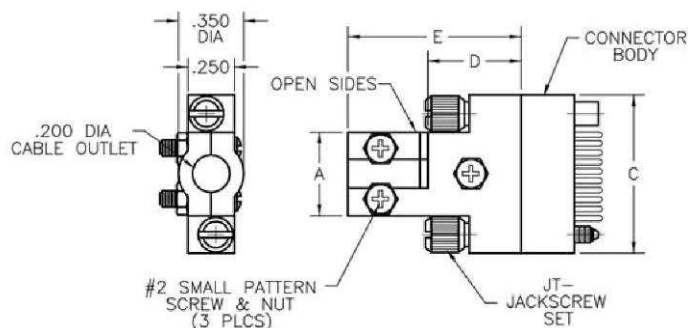
WTA**H = DESIGNATES HOOD USED WITH JTL HARDWARE
 WTA**HN = DESIGNATES HOOD USED WITH J OR SY HARDWARE (INCLUDES EXTENSION NUTS).
 WTAHN = DESIGNATES EXTENSION NUTS ONLY.

** = DESIGNATES CONNECTOR SIZE. SEE PAGE WA-7 FOR ADDITIONAL INFORMATION ON EXTENSION NUTS.

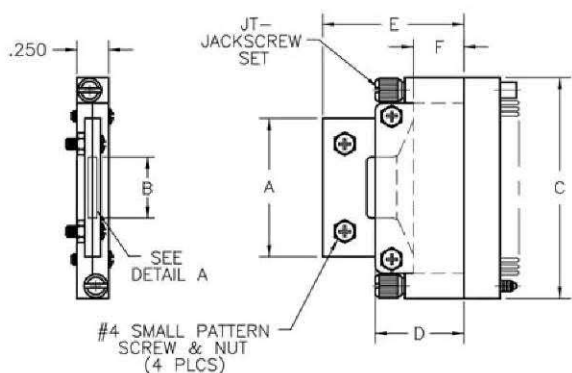
Accessories

Hoods for
WTD-WTDX Series

WTD HOODS
FOR USE WITH PLUG PATTERN

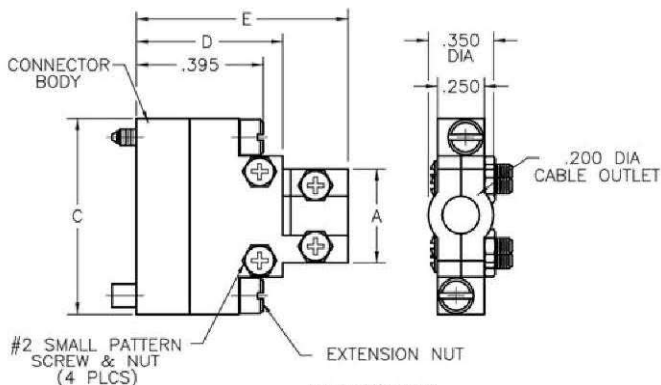


WTD10H

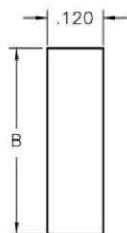


WTD26H

WTDX HOODS
FOR USE WITH RECEPTACLE PATTERN



WTDX14HN



DETAIL A
MAXIMUM CABLE
OPENING
SEE NOTE 4

PART NO. DESIGNATION			
SERIES	SIZE	HOOD DESIGNATION	FOR HARDWARE TYPE
WTD		H	JT - TURNING JACKSCREW SET
WTDX	10, 14 & 26	HN	J - FIXED JACKSCREW SET SY - GUIDE SET

CODE CHART													
WTD HOODS, PLUG IMAGE							WTDX HOODS, RECEPTACLE IMAGE						
PART NO.	A	B $\pm .015$ -.025	C	D	E	F	PART NO.	A	B $\pm .015$ -.025	C	D	E	F
WTD10H	.450	—	.850	.500	.850	.200	WTDX10H	.450	—	.850	.500	.850	—
WTD14H	.500	—	1.050		WTDX14H		.500	—	1.050	—			
WTD26H	1.090	.540	1.650		.915		WTDX26H	1.250	.600	1.650		.915	.200

NOTES:

- DIMENSIONS ARE SYMMETRICAL ABOUT CENTER LINE.
- HOODS ARE SUPPLIED UNASSEMBLED.
- HOOD MATERIAL: POLYETHYLENE, HIGH DENSITY
- CLAMPING SCREWS AND NUTS: STAINLESS STEEL
- THE TOP CLAMPS ARE FLEXIBLE TO ACCOMMODATE MAXIMUM CABLE BUNDLE.
- CHECK WITH SALES DEPARTMENT FOR SIZES NOT LISTED.
- SEE PAGE WA-5 FOR WTA-WTAX SERIES HOODS.
- IF USED WITH WTA OR WTAX CONNECTORS IS DESIRED, LEAD DRESS AREA WILL BE AT A MINIMUM.
- SCREWS SUPPLIED ARE CROSS-RECESS ONLY.
- TOLERANCES: $\pm .015$
- SIZES 10 & 14 USE #2 SMALL PATTERN SCREW & NUT.
- SIZE 26 USE #4 SMALL PATTERN SCREW & NUT.
- HOODS CANNOT BE USED ON CONNECTORS SPECIFYING THE -C45 OPTION CODE.

EXAMPLES:

WTD**H = DESIGNATES HOOD USED WITH JT HARDWARE
WTD**HN = DESIGNATES HOOD USED WITH J OR SY HARDWARE (INCLUDES EXTENSION NUTS).
WTDHN = DESIGNATES EXTENSION NUTS ONLY.

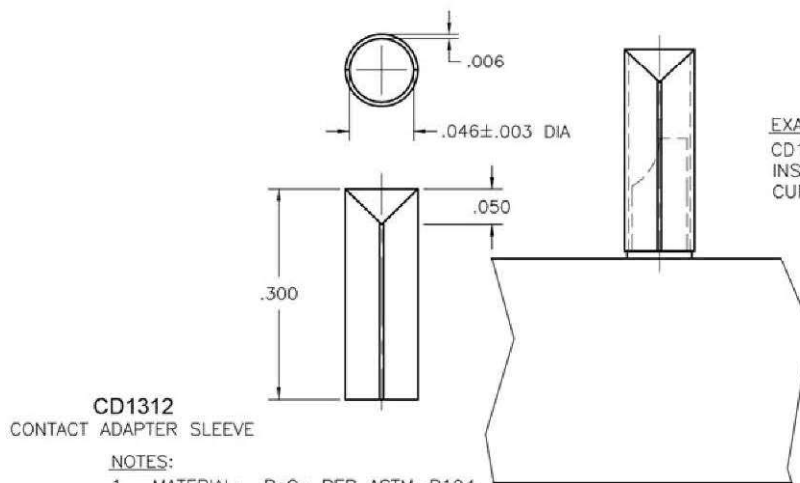
** = DESIGNATES CONNECTOR SIZE. SEE PAGE WA-7 FOR ADDITIONAL INFORMATION ON EXTENSION NUTS.

Accessories

Adapter Sleeve for Solder Cup Contacts

EXAMPLE:

CD1312 ADAPTER SLEEVE
INSTALLED OVER SOLDER
CUP CONTACT



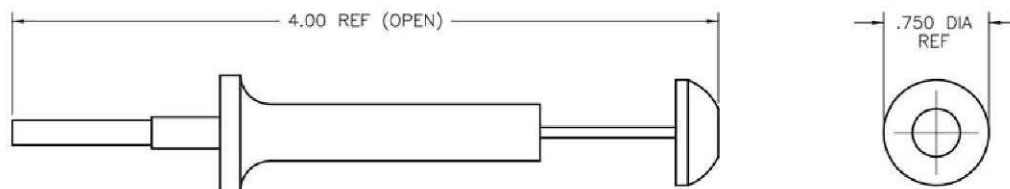
CD1312
CONTACT ADAPTER SLEEVE

NOTES:

1. MATERIAL: BeCu PER ASTM-B194.
FINISH: GOLD PLATE PER MIL-G-45204
2. CONTACT ADAPTER SLEEVE IS DESIGNED TO ACCEPT #20 WIRE.
3. WITH USE OF THE ADAPTER SLEEVE, EFFECTIVE DIAMETER IS EXPANDED TO .050 I.D.
4. THE CD1312 WILL ALSO ACCEPT: 3 TWISTED OF #28 WIRE
2 TWISTED OF #26 WIRE

Accessories

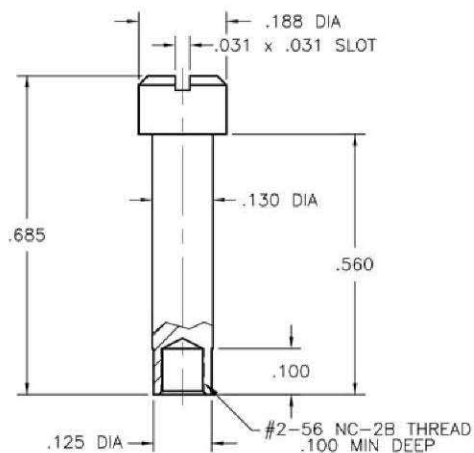
Coax Removal Tool for WTC Contacts



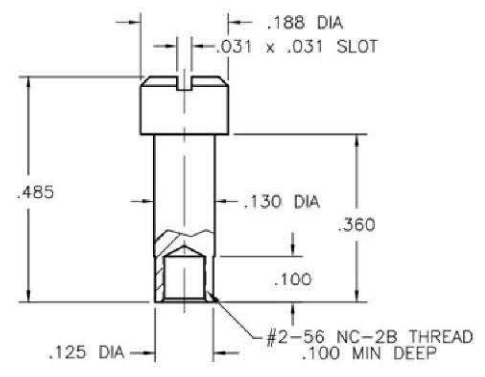
TR2679
REMOVAL TOOL

Accessories

Extension Nuts



WTAHN
FOR USE WITH WTAH & WTAXH
HOODS. SEE PAGE WA-5.



WTDHN
FOR USE WITH WTDH & WTDXH
HOODS. SEE PAGE WA-6.

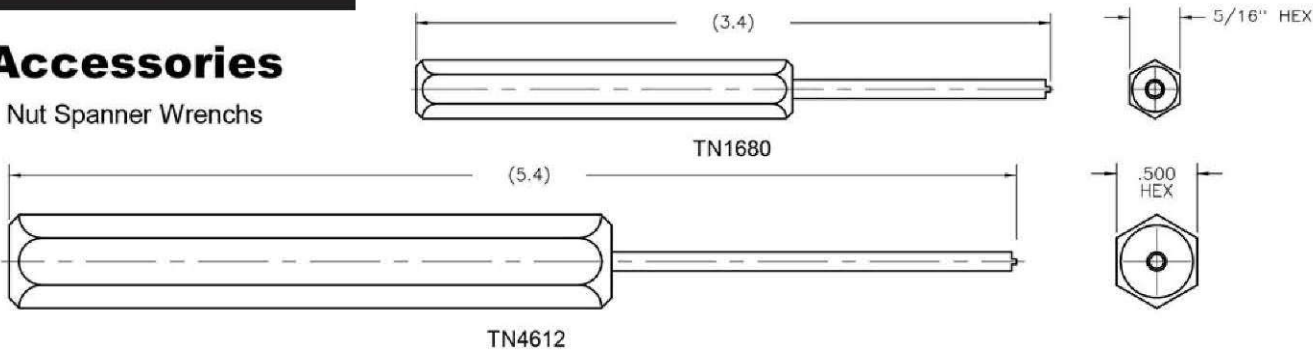
NOTES:

1. EXTENSION NUTS ARE NECESSARY FOR HOODS WHEN CONNECTOR INVOLVED HAS FIXED HARDWARE.
FOR EXAMPLE: GUIDE SET (SY) OR FIXED JACKSCREW SET (J).
2. TWO EXTENSION NUTS ARE REQUIRED PER HOOD.
3. MATERIAL: STAINLESS STEEL, TYPE 303.
4. INSTALLATION: REMOVE NUT FROM HARDWARE ON TERMINATION SIDE OF CONNECTOR USING TN1680, NUT SPANNER WRENCH. INSTALL EXTENSION NUT IN ITS PLACE. FOR INFORMATION ON TN1680 SEE WA-8.



Accessories

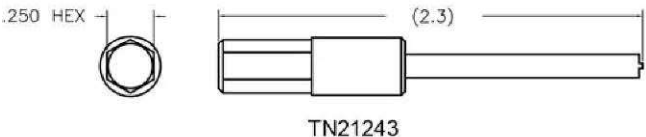
Nut Spanner Wrenches



USING EITHER OF THE SPANNER WRENCHES SHOWN ABOVE, GUIDE SETS MAY BE REMOVED AND REPOSITIONED IN ANY OF THE 64 POLARIZING POSITIONS. REFER TO PAGE WA-18 FOR POLARIZATION CHART.

CAUTION: WHEN POLARIZED POSITIONS ARE CHANGED, APPLY LOCTITE 242 ® TO THREADS.

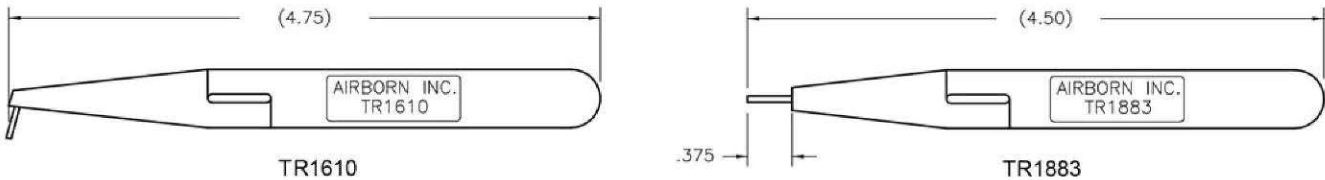
IF SPANNER NUTS ARE DIFFICULT TO REMOVE DUE TO HARDENED LOCTITE ®, APPLY HEAT (300° F) TO NUT AREA FOR ONE HOUR AND REPEAT REMOVAL OPERATION.



THE 1/4" DRIVE SPANNER WRENCH ABOVE IS DESIGNED FOR USE IN TORQUE WRENCHES

Accessories

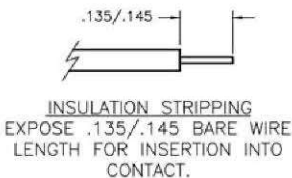
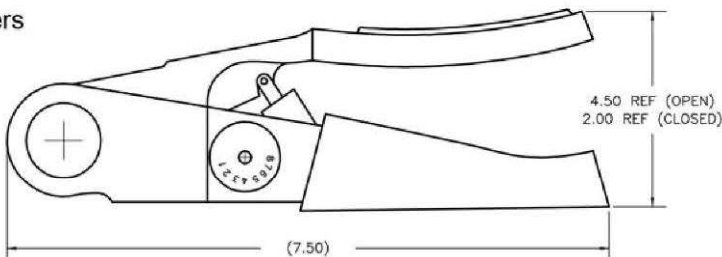
Insertion & Removal Tools



Accessories

Crimp Tools & Positioners

TC1652 - CRIMP TOOL
REF M22520/2-01
TP1653 - POSITIONER
REF M22520/2-06

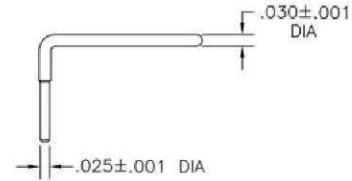
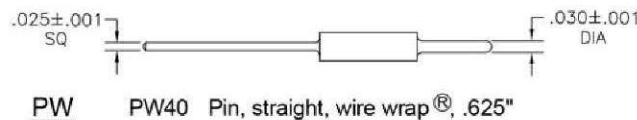
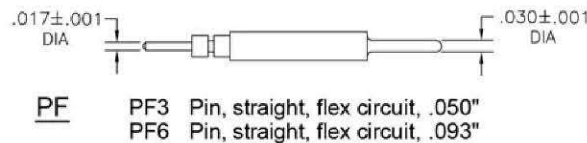
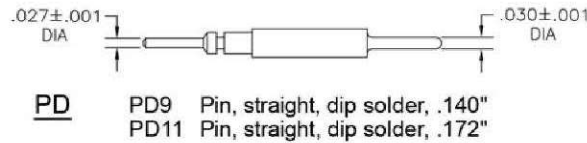
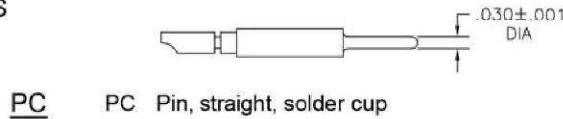


TOOL SELECTION TABLE		
CONTACT	TOOL NO.	POSITIONER
WTK2222P	TC1652	TP1985
WTK2222S		TP1653
WTK2220S657		TP2435
WTK2220P657		TP13784

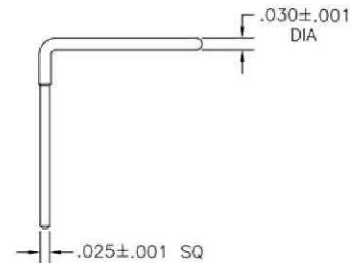
Contacts

#22 Pins & Sockets
for WT, WTA, WTB, WTK,
WG & WGA Series

PINS

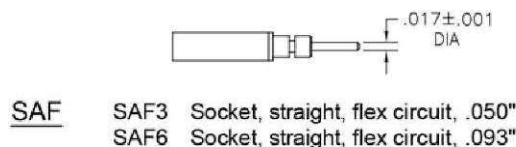
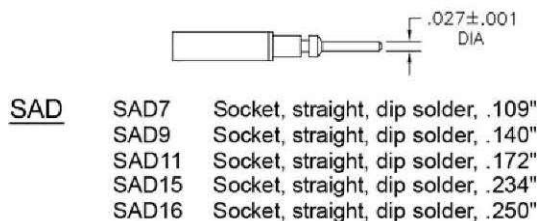
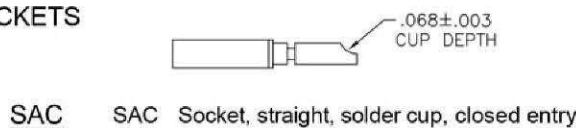


- PR**
- PR5 Pin, right angle, dip solder, .081" x .025" dia
 - PR7 Pin, right angle, dip solder, .109" x .025" dia
 - PR9 Pin, right angle, dip solder, .140" x .025" dia
 - PR11 Pin, right angle, dip solder, .172" x .025" dia
 - PR15 Pin, right angle, dip solder, .234" x .025" dia
 - PRD4 Pin, right angle, dip solder, .063" x .030" dia
 - PRD7 Pin, right angle, dip solder, .109" x .030" dia
 - PRD8 Pin, right angle, dip solder, .125" x .030" dia

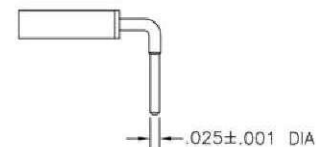


- PRW**
- PRW32 Pin, right angle, wire wrap®, .500"
 - PRW34 Pin, right angle, wire wrap®, .531"
 - PRW40 Pin, right angle, wire wrap®, .625"

SOCKETS



- SAG**
- SAG7 Socket, straight, dip solder, .109"
 - SAG9 Socket, straight, dip solder, .140"
 - SAG11 Socket, straight, dip solder, .172"



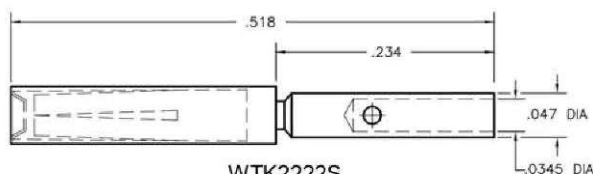
- SAR**
- SAR7 Socket, right angle, dip solder, .109"
 - SAR9 Socket, right angle, dip solder, .140"
 - SAR11 Socket, right angle, dip solder, .172"



- SAW**
- SAW24 Socket, straight, wire wrap®, .375"
 - SAW40 Socket, straight, wire wrap®, .625"

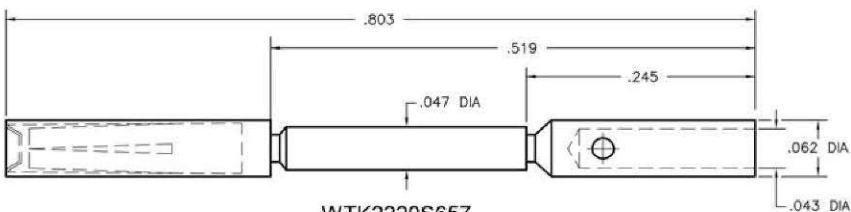
Contacts

Crimp Removable for
WTDX, WTDXA, WTK, WTKA Series
WGDx, WGDx, WGK, WGKA Series

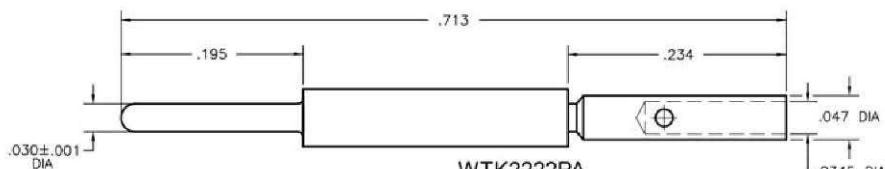


WTK2222S
SOCKET, CRIMP REMOVABLE

WTK2222SA
SOCKET, LOW FORCE, CRIMP REMOVABLE,
22 GAGE BARREL



WTK2220S657
SOCKET, CRIMP REMOVABLE,
20 GAGE BARREL

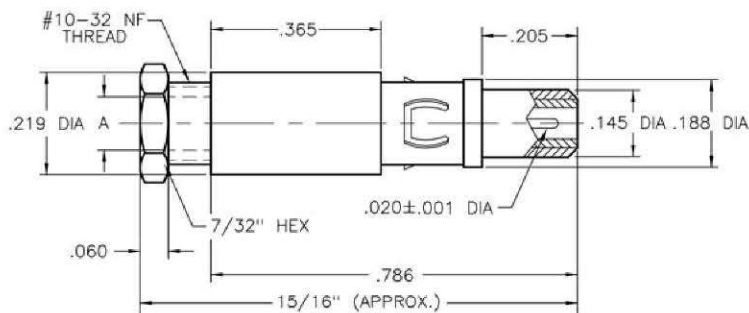


WTK2222PA
PIN, CRIMP REMOVABLE,
22 GAGE BARREL

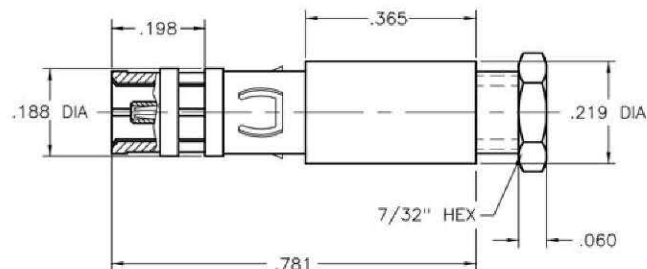
Note: When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

Contacts

Coax

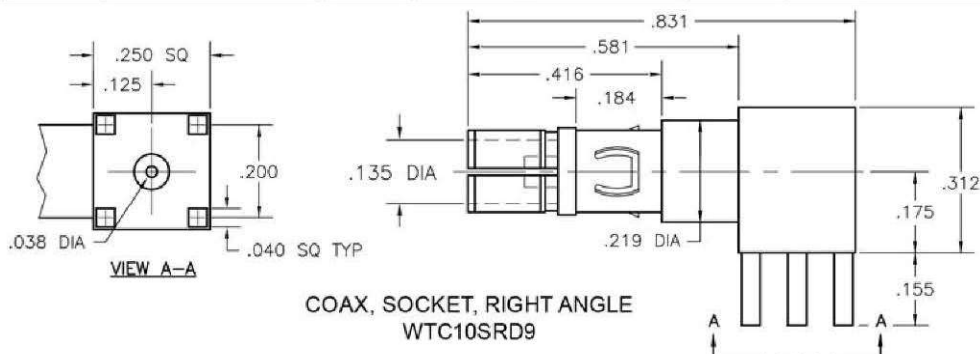


COAX, MALE



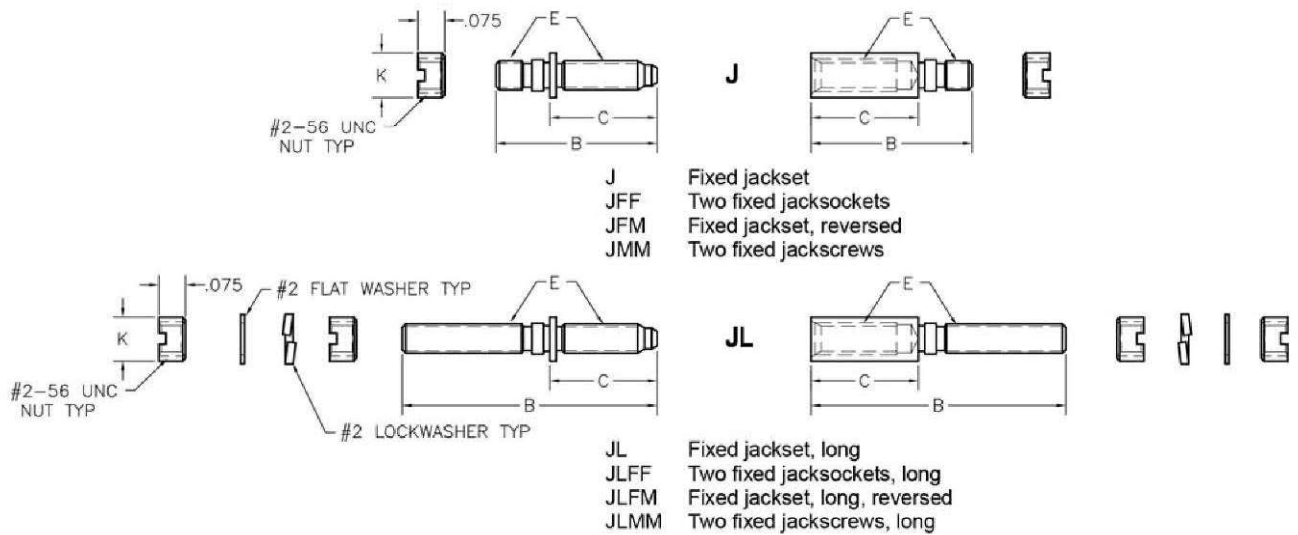
COAX, FEMALE

PART #	DESCRIPTION	DIA "A"	CABLE TYPE	PART #	DESCRIPTION
WTC188P	COAX, STRAIGHT, PIN	.115	RG174, RG188, RG316	WTC188S	COAX, STRAIGHT, SOCKET
WTC196P		.089	RG178, RG196	WTC196S	
WTC085P			SEMI-RIGID, .085-50 OHM	WTC085S	

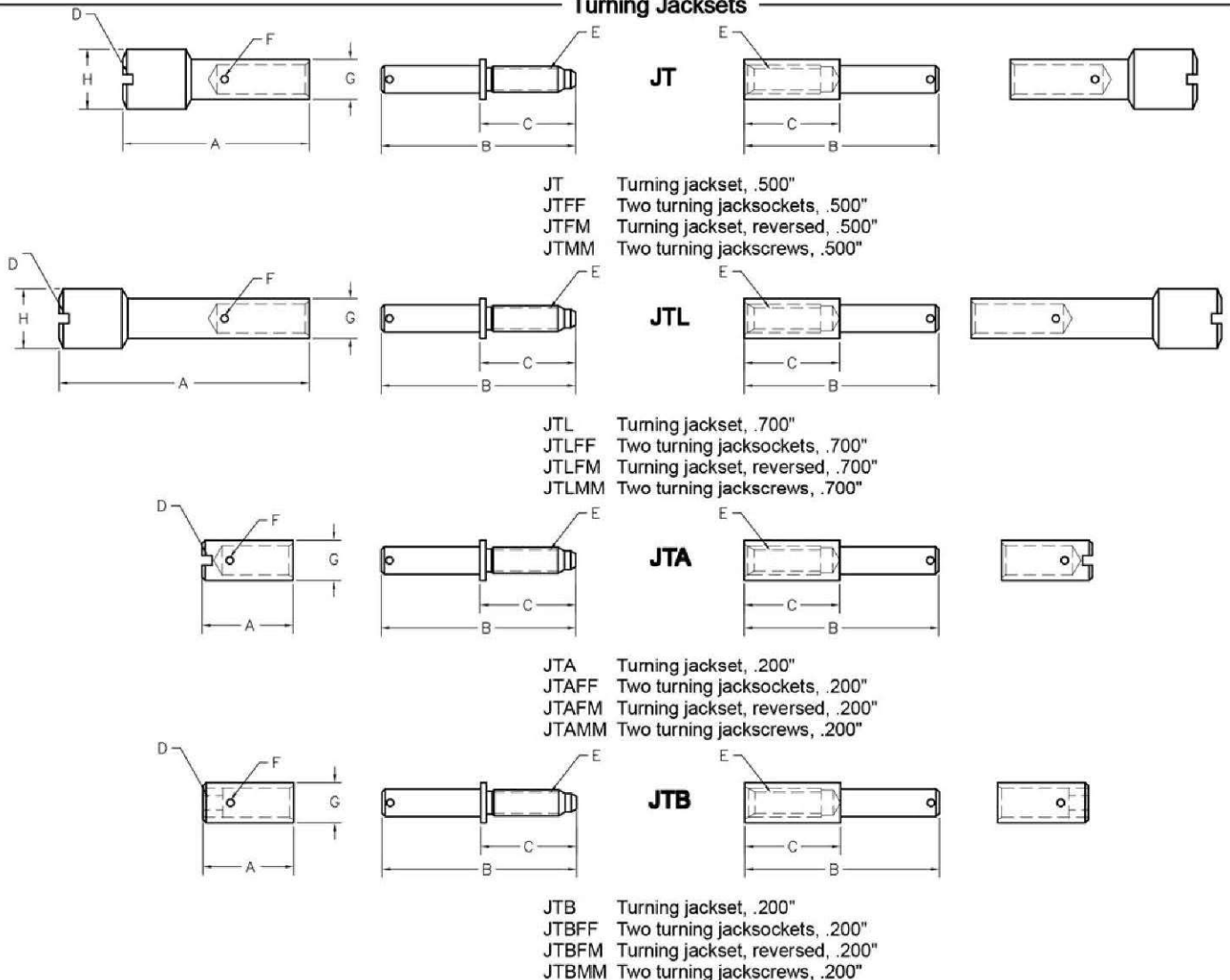


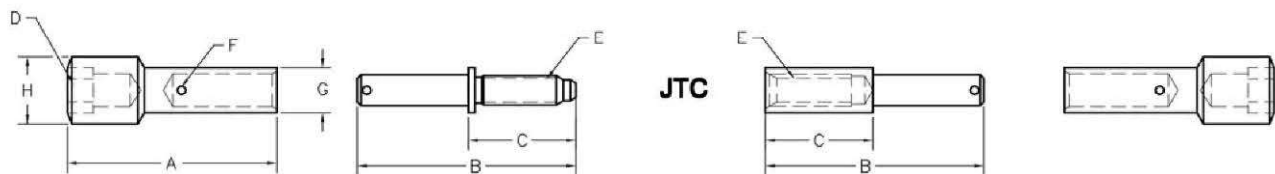
COAX, SOCKET, RIGHT ANGLE
WTC10SRD9

Fixed Jacksets



Turning Jacksets

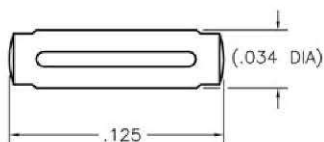




JTC Turning jackset, .500"
 JTCFF Two turning jacksockets, .500"
 JTCFM Turning jackset, reversed, .500"
 JTCMM Two turning jackscrews, .500"

GROOVE PIN

SEE NOTE 1

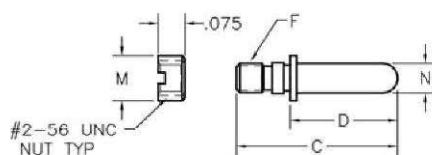


Notes:

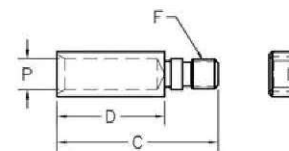
1. Groove pin secures knob to jackscrew and jacksocket on turning hardware.
2. For nut spanner wrench, refer to Data Sheet on WA-9.
3. When installing fixed jacksets, apply Loctite® to threads.
4. Under normal conditions, jackscrews are at socket contact position #1, and jacksockets are at pin contact position #1.
5. Spanner nuts, lockwashers and flat washers shall be supplied separately.

DIMENSIONS										
HARDWARE TYPE	FOR MOLDING TYPE	A	B	C	D	E	F	G	H	K
J	WTA, WTB	—	.450	.300	—	#2-56 UNC THD	—	—	—	.125 DIA
JL	WTA, WTB	—	.712		—		—	—	—	.125 DIA
JT	WTA, WTB WTDX, WTK	.585	.610 .860		.031 x .031 SLOT		.033 DIA	.125 DIA	.187 DIA	—
JTA	WTA, WTB WTDX, WTK	.285	.610 .860		.031 x .031 SLOT				.125 DIA	—
JTB	WTA, WTB WTDX, WTK	.285	.610 .860		5/64 INT HEX				.125 DIA	—
JTC	WTA, WTB WTDX, WTK	.585	.610 .860		7/64 INT HEX				.187 DIA	—
JTL	WTA, WTB WTDX, WTK	.785	.610 .860		.031 x .031 SLOT				.187 DIA	—

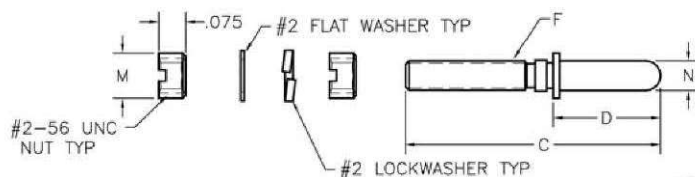
Guide Sets



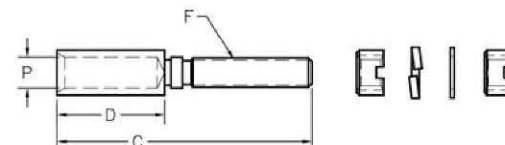
SY



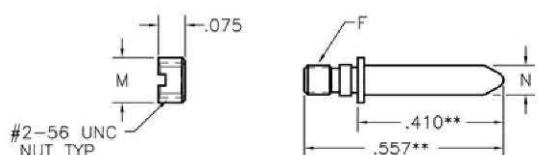
SY Guide set
SYFF Two guide sockets
SYFM Guide set, reversed
SYMM Two guide pins



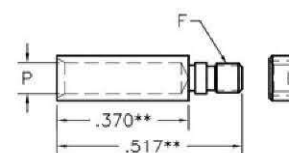
SYL



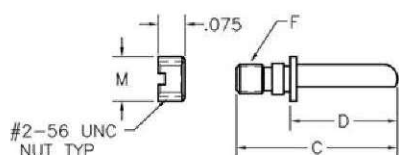
SYL Guide set
SYLFF Two guide sockets
SYLFM Guide set, reversed
SYLMM Two guide pins



SC

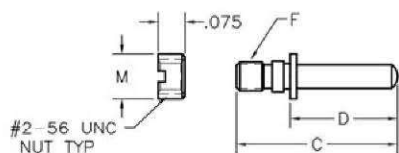
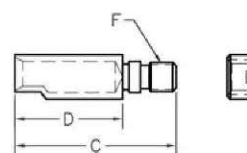


Guide Sets, Polarized



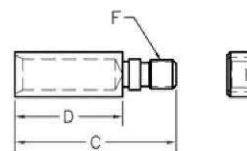
SY-

SEE NOTE 1



SY-

SEE NOTE 2



Notes:

- For polarized "D" shaped guides, see WA-17. Polarizing also available for SYL- and SC- guide sets. To order, use P/N WTBSY-*, WTBSYL-* or WTBSC-*. See WA-17 for dash number requirement (example WTBSY-33).
- For universal type test connector, see WA-17.
- For nut spanner wrench, refer to Data Sheet on WA-9.
- When installing guide sets, apply Loctite® to threads.
- Under normal conditions, jackscrews are at socket contact position #1, and jackscrews are at pin contact position #1.
- Spanner nuts, lockwashers and flat washers shall be supplied separately.

DIMENSIONS							
PART NUMBER	FOR MOLDING TYPE	C	D	F	M	N	P
WTBSC	WTB COAX	**	**	#2-56 UNC THD	.125 DIA	.082 DIA	.086 DIA
WTBSY	WTA,WTB,WG,WGA	.450	.300				
WTBTSY	WTBT	.653					
WTKSY	WTK	.712					
WTBSYL	WTA,WTB,WG						



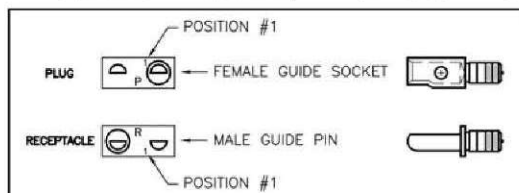
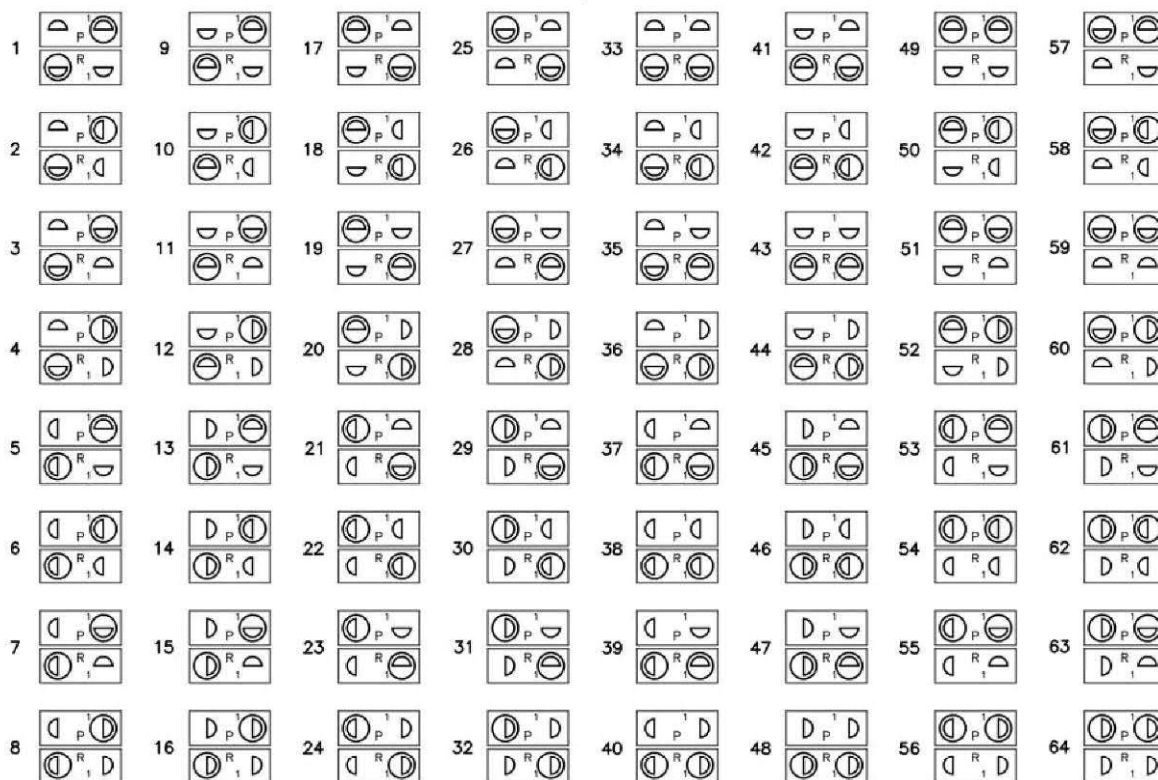
Hardware Availability by Connector Series

WTA / B WG - Receptacle										Body Height = .335		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.247	----	----	.247	.247	.200	.200	.230	.500	.500	.700
WTB / WG - Plug										Body Height = .400		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.182	----	----	.182	.182	.135	.135	.165	.435	.435	.635
WGA - Receptacle										Body Height = .375		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.207	----	----	.207	.207	.160	.160	.190	.460	.460	.660
WGA - Plug										Body Height = .400		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.182	----	----	.182	.182	.135	.135	.165	.435	.435	.635
WGR92 - Receptacle										Body Height = .375		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.207	----	----	.207	.207	.160	.160	.190	.460	.460	.660
WGR92 - Plug										Body Height = .350		
Style:	JCL	SYCL	SYCL-*				JTA	JTB	JT	JTL		
Mating:	.130	.130	.130				.130	.130	.130	.130		
Termn:	.247	.120	.120				.205	.205	.505	.705		
WRD122 - Receptacle										Body Height = .375		
Style:	J	JL	SY	SY-	SYL	SYL-*	L-D65	JTA	JTB	JTC	JT	JTL
Mating:	.130	.130	.130	.130	.130	.130	----	.130	.130	.130	.130	.130
Termn:	----	.207	----	----	.207	.207	.230	.160	.160	.460	.460	.660
WRD122 - Plug										Body Height = .635		
Style:	JCL	SYCL	SYCL-*									
Mating:	.130	.130	.010									
Termn:	----	----	----									
WRF100 - Receptacle										Body Height = .534		
Style:	J	JL										
Mating:	.130	.130										
Termn:	----	.250										
WRF100 - Plug										Body Height = .430		
Style:								JTB				JTL
Mating:								.130				.130
Termn:								.190				.705
WRTBT - Receptacle										Body Height = .525		
Style:	J		SY	SY-*			JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130		.130	.130			.130	.130	.130	.130	.130	.130
Termn:	----		----	----			.175	.175	.205	.475	.500	.675
PA - Receptacle										Body Height = .375		
Style:	SY	J						JTB		JT		
Mating:	.175	.160						.175		.175		
Termn:	.200	.277						.314		1.054		
PA - Plug										Body Height = .375		
Style:	SY	J						JTB		JT		JTL
Mating:	.210	.160						.160		.160		.175
Termn:	.273	.277						.314		1.054		1.170

Hardware Availability by Connector Series

WTK / WTDX - Plug or Receptacle								Body Height = .585				
Style:	J	JL	SY	SY-*			JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130			.130	.130	.130	.130	.130	.130
Termn:	-----	.247	-----	-----			.200	.200	.230	.500	.500	.700
WTA59								Body Height = .285				
Style:	J						JTA	JTB				
Mating:	.130						.130	.130				
Termn:	-----						.135	.135				
WRBC - Receptacle								Body Height = .530				
Style:		SC	SC-*									
Mating:		.145	.145									
Termn:		-----	-----									
WRBC - Plug								Body Height = .515				
Style:		SC	SC-*									
Mating:		.185	.185									
Termn:		-----	-----									
WTB Coax - Receptacle								Body Height = .335				
Style:	J	JL	SY	SY-*			JTA	JTB		JT		
Mating:	.130	.130	.130	.130			.130	.130		.130		
Termn:	-----	.247	-----	-----			.200	.200		.500		
WTB Coax - Plug								Body Height = .400				
Style:	J	SY	SY-*				JTA	JTB		JT		
Mating:	.130	.130	.130				.130	.130		.130		
Termn:	-----	-----	-----				.135	.135		.435		
WTB Coax - Receptacle with SC hardware (guide socket)								Body Height = .335				
Style:			SC	SC-*								
Mating:			.145	.145								
Termn:			.040	.040								
WTB Coax - Plug with SC hardware (guide pin)								Body Height = .400				
Style:			SC	SC-*								
Mating:			.185	.185								
Termn:			-----	-----								
WTB Coax - Receptacle with SC hardware (guide pin)								Body Height = .335				
Style:			SC	SC-*								
Mating:			.185	.185								
Termn:			.040	.040								
WTB Coax - Plug with SC hardware (guide socket)								Body Height = .400				
Style:			SC	SC-*								
Mating:			.145	.145								
Termn:			-----	-----								

Polarization D-Shaped Guide Sets



For optimum safety, use polarization number 1-6-11-16-17-22-27 or 32 when possible. These positions will exclude entry of guide pins at both ends of connectors when an attempt is made to mate incorrectly.

Select the appropriate two digit number above and include in the hardware code of the part number.

Example:

Plug WTB20PR7SY-1
Receptacle WTB20SECSY-1

To order polarization guide set only, use p/n WTBSY-1. This set consists of one "D-shaped" guide pin, one "D-shaped" guide socket and two spanner nuts (#2-56 UNC thread).

WTBSY-0 is WTBSY-1 except guide set is assembled in connector with the "-1" configuration without applying Loctite.®

To change polarization position of guide sets, order spanner nut wrench, part number TN1680 or TN4612. See WA-9.

SERIES	NO. OF CONTACTS	POLARIZED GUIDE SET CODE	POLAR. GUIDE SET ONLY
WTB WG	10 THRU 160	SY-1 (EX. WTB70SACSY-1)	WTBSY-1
WTB COAX TYPE	20-3, 20-6	SC-1 (EX. WTB20-6SACSC-1)	WTBSC-1
WTK	10 THRU 70	SY-1 (EX. WTKA70SSY-1)	WTKSY-1

UNIVERSAL TEST CONNECTORS

The following test guide sets are designed to mate with any of several connectors having different polarization positions. Note that the square guide pin in test connector will enter the D-shaped socket in any of the four positions in which it may be installed. Likewise, the round guide socket in test connector will fit the D-shaped pin in any position.

-65		For positions -1 thru -16
-66		For positions -17 thru -32
-67P		For positions -33 thru -48
-67R		For positions -33 thru -48
-68P		For positions -49 thru -64
-68R		For positions -49 thru -64

When ordering -67 or -68 guide sets only, P (plug) or R (receptacle) must be noted. Ex: WTBSY-67R. Not required if guides are assembled in the connector. Ex: WTB70SACSY-67.

WTBSY-65, WTBSC-65 & WTKSY-65 is Universal Guide Set only, consisting of: one square guide pin one round guide socket two spanner nuts (#2-56 thd)

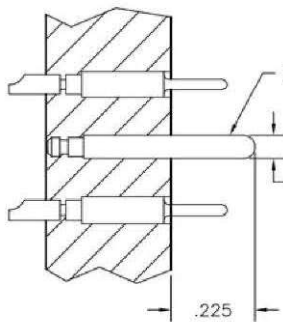
Polarization

Polarizing Pin Applications

PIN CONTACT

—STRAIGHT THRU—
CONNECTOR BODY

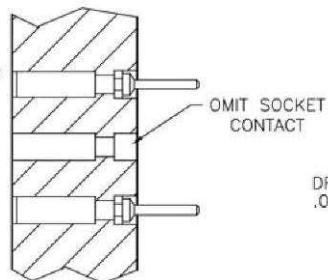
WT, WTA
WTAV, WTBV



WTA**PCJTA443-1, -2...

SOCKET CONTACT

WT, WTA, WTAX,
WTB, WTBX

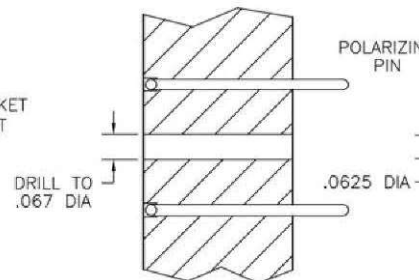


WTA**SAD9JL444-1, -2...

PIN CONTACT

—RIGHT ANGLE—
CONNECTOR BODY

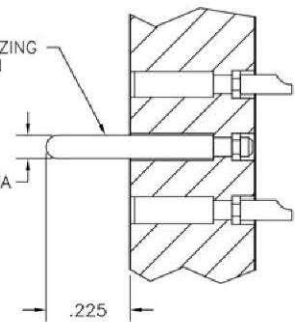
WG, WGA, WGE,
WT, WTB



WTB**PR7SY515-1, -2...

SOCKET CONTACT

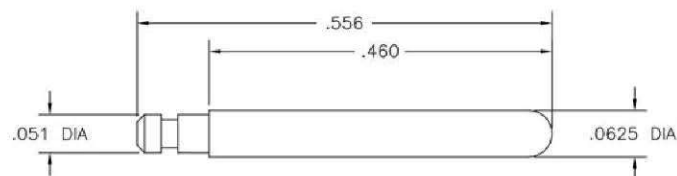
WG, WGA, WGE,
WT, WTA, WTAX,
WTB, WTDXA, WTKA



WTB**SACSY515-1, -2...

Notes:

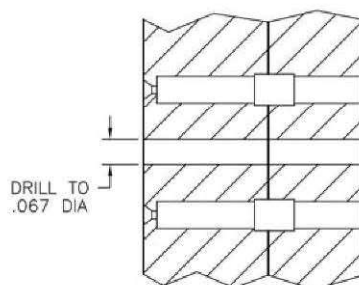
1. CODE 443 - Polarizing pin installed in contact position noted by dash number.
2. CODE 444 - Contact position noted by dash number is left open.
3. Either pin or socket contacts can be used with 443 or 444.
4. ** = connector size
5. For additional dimensions and other information, refer to catalog data sheet of specific connector.



STAINLESS STEEL
POLARIZING PIN

SOCKET CONTACT

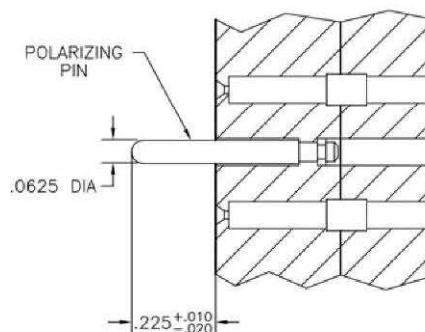
WTDXA, WTKA



WTDXA**SJT478-1, -2...
WTKA**SSY478-1, -2...

SOCKET CONTACT

WTDXA, WTKA



WTDXA**SJT515-1, -2...
WTKA**SSY515-1, -2...

MIL-C-55302/55 thru MIL-C-55302/57 Cross Reference Chart

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/55 - Standard Insertion Force Contacts - or - MIL-C-55302/55L - Low Insertion Force Contacts		MIL-C-55302/57	
MIL Number	W Series	MIL Number	W Series
/55-A##L /55-A##M /55-A##S /55-A##H	WTA##SACJTL WTA##SACJT WTA##SACJTA WTA##SACJTB	/57A##X /57A##Y /57A##Y-2 thru -64 /57A##Y-0 /57A##S /57A##H	WTB##PR7SY WTB##PR7SY-1 WTB##PR7SY-2 thru -64 WTB##PR7SY-0 WTB##PR7JTA WTB##PR7JTB
/55-B##L /55-B##M /55-B##S /55-B##H	WTA##SAD9JTL WTA##SAD9JT WTA##SAD9JTA WTA##SAD9JTB	/57B##X /57B##Y /57B##Y-2 thru -64 /57B##Y-0 /57B##S /57B##H	WTB##PR9SY WTB##PR9SY-1 WTB##PR9SY-2 thru -64 WTB##PR9SY-0 WTB##PR9JTA WTB##PR9JTB
/55-C##L /55-C##M /55-C##S /55-C##H	WTA##SAD11JTL WTA##SAD11JT WTA##SAD11JTA WTA##SAD11JTB	/57C##X /57C##Y /57C##Y-2 thru -64 /57C##Y-0 /57C##S /57C##H	WTB##PR11SY WTB##PR11SY-1 WTB##PR11SY-2 thru -64 WTB##PR11SY-0 WTB##PR11JTA WTB##PR11JTB
/55-D##L /55-D##M /55-D##S /55-D##H	WTA##SAF3JTL WTA##SAF3JT WTA##SAF3JTA WTA##SAF3JTB	/57-01	TN1680 Spanner Nut Wrench
/55-E##L /55-E##M /55-E##S /55-E##H	WTA##SAD15JTL WTA##SAD15JT WTA##SAD15JTA WTA##SAD15JTB		
/55-F##L /55-F##M /55-F##S /55-F##H	WTA##SAF6JTL WTA##SAF6JT WTA##SAF6JTA WTA##SAF6JTB		
MIL-C-55302/56			
/56A## /56B## /56C## /56D## /56E## /56F##	WTA##PCJL WTA##PD9JL WTA##PD11JL WTA##PW40JL WTA##PF3JL WTA##PF6JL		

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/58 - Standard Insertion Force Contacts - or - MIL-C-55302/58L - Low Insertion Force Contacts		MIL-C-55302/58	
MIL Number	W Series	MIL Number	W Series
/58-A##X /58-A##Y /58-A##Y-2 thru -64 /58-A##Y-0 /58-A##F /58-A##S /58-A##H	WTB##SACSY WTB##SACSY-1 WTB##SACSY-2 thru -64 WTB##SACSY-0 WTB##SACJ WTB##SACJTA WTB##SACJTB	/58-H##X /58-H##Y /58-H##Y-2 thru -64 /58-H##Y-0 /58-H##F /58-H##S /58-H##H	WTB##SAF6SY WTB##SAF6SY-1 WTB##SAF6SY-2 thru -64 WTB##SAF6SY-0 WTB##SAF6J WTB##SAF6JTA WTB##SAF6JTB
		/59 ### Indicates Number of Contacts: 90, 100 or 120	
/58-B##X /58-B##Y /58-B##Y-2 thru -64 /58-B##Y-0 /58-B##F /58-B##S /58-B##H	WTB##SAD9SY WTB##SAD9SY-1 WTB##SAD9SY-2 thru -64 WTB##SAD9SY-0 WTB##SAD9J WTB##SAD9JTA WTB##SAD9JTB	/59A###X /59A###Y /59A###Y-2 thru -64 /59A###Y-0 /59A###F /59A###S /59A###H	WTB###PR7SY WTB###PR7SY-1 WTB###PR7SY-2 thru -64 WTB###PR7SY-0 WTB###PR7J WTB###PR7JTA WTB###PR7JTB
/58-C##X /58-C##Y /58-C##Y-2 thru -64 /58-C##Y-0 /58-C##F /58-C##S /58-C##H	WTB##SAD11SY WTB##SAD11SY-1 WTB##SAD11SY-2 thru -64 WTB##SAD11SY-0 WTB##SAD11J WTB##SAD11JTA WTB##SAD11JTB	/59B###X /59B###Y /59B###Y-2 thru -64 /59B###Y-0 /59B###F /59B###S /59B###H	WTB###PR9SY WTB###PR9SY-1 WTB###PR9SY-2 thru -64 WTB###PR9SY-0 WTB###PR9J WTB###PR9JTA WTB###PR9JTB
/58-D##X /58-D##Y /58-D##Y-2 thru -64 /58-D##Y-0 /58-D##F /58-D##S /58-D##H	WTB##SAW40SY WTB##SAW40SY-1 WTB##SAW40SY-2 thru -64 WTB##SAW40SY-0 WTB##SAW40J WTB##SAW40JTA WTB##SAW40JTB	/59C###X /59C###Y /59C###Y-2 thru -64 /59C###Y-0 /59C###F /59C###S /59C###H	WTB###PR11SY WTB###PR11SY-1 WTB###PR11SY-2 thru -64 WTB###PR11SY-0 WTB###PR11J WTB###PR11JTA WTB###PR11JTB
/58-E##X /58-E##Y /58-E##Y-2 thru -64 /58-E##Y-0 /58-E##F /58-E##S /58-E##H	WTB##SAF3SY WTB##SAF3SY-1 WTB##SAF3SY-2 thru -64 WTB##SAF3SY-0 WTB##SAF3J WTB##SAF3JTA WTB##SAF3JTB		
/58-F##X /58-F##Y /58-F##Y-2 thru -64 /58-F##Y-0 /58-F##F /58-F##S /58-F##H	WTB##SAD15SY WTB##SAD15SY-1 WTB##SAD15SY-2 thru -64 WTB##SAD15SY-0 WTB##SAD15J WTB##SAD15JTA WTB##SAD15JTB		

## Indicates Number of Contacts: 90, 100 or 120		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/60 - Standard Insertion Force Contacts - or - MIL-C-55302/60L - Low Insertion Force Contacts		MIL-C-55302/62 - Standard Insertion Force Contacts - or - MIL-C-55302/62L - Low Insertion Force Contacts	
MIL Number	W Series	MIL Number	W Series
/60-A###X	WTB###SACSY	/62-A##L	WTAX##SACJTL
/60-A###Y	WTB###SACSY-1	/62-A##M	WTAX##SACJT
/60-A###Y-2 thru -64	WTB###SACSY-2 thru -64	/62-A##S	WTAX##SACJTA
/60-A###Y-0	WTB###SACSY-0	/62-A##H	WTAX##SACJTB
/60-A###F	WTB###SACJ		
/60-A###S	WTB###SACJTA		
/60-A###H	WTB###SACJTB		
		/62-B##L	WTAX##SAD9JTL
/60-B###X	WTB###SAD9SY	/62-B##M	WTAX##SAD9JT
/60-B###Y	WTB###SAD9SY-1	/62-B##S	WTAX##SAD9JTA
/60-B###Y-2 thru -64	WTB###SAD9SY-2 thru -64	/62-B##H	WTAX##SAD9JTB
/60-B###Y-0	WTB###SAD9SY-0		
/60-B###F	WTB###SAD9J	/62-C##L	WTAX##SAD11JTL
/60-B###S	WTB###SAD9JTA	/62-C##M	WTAX##SAD11JT
/60-B###H	WTB###SAD9JTB	/62-C##S	WTAX##SAD11JTA
		/62-C##H	WTAX##SAD11JTB
/60-C###X	WTB###SAD11SY		
/60-C###Y	WTB###SAD11SY-1	/62-D##L	WTAX##SAF3JTL
/60-C###Y-2 thru -64	WTB###SAD11SY-2 thru -64	/62-D##M	WTAX##SAF3JT
/60-C###Y-0	WTB###SAD11SY-0	/62-D##S	WTAX##SAF3JTA
/60-C###F	WTB###SAD11J	/62-D##H	WTAX##SAF3JTB
/60-C###S	WTB###SAD11JTA		
/60-C###H	WTB###SAD11JTB		
		/62-E##L	WTAX##SAD15JTL
/60-D###X	WTB###SAW40SY	/62-E##M	WTAX##SAD15JT
/60-D###Y	WTB###SAW40SY-1	/62-E##S	WTAX##SAD15JTA
/60-D###Y-2 thru -64	WTB###SAW40SY-2 thru -64	/62-E##H	WTAX##SAD15JTB
/60-D###Y-0	WTB###SAW40SY-0		
/60-D###F	WTB###SAW40J	/62-F##L	WTAX##SAF6JTL
/60-D###S	WTB###SAW40JTA	/62-F##M	WTAX##SAF6JT
/60-D###H	WTB###SAW40JTB	/62-F##S	WTAX##SAF6JTA
		/62-F##H	WTAX##SAF6JTB
		MIL-C-55302/63	
/60-E###X	WTB###SAD15SY	/63A##L	WTA##PCJTL
/60-E###Y	WTB###SAD15SY-1	/63A##M	WTA##PCJT
/60-E###Y-2 thru -64	WTB###SAD15SY-2 thru -64	/63A##S	WTA##PCJTA
/60-E###Y-0	WTB###SAD15SY-0	/63A##H	WTA##PCJTB
/60-E###F	WTB###SAD15J		
/60-E###S	WTB###SAD15JTA	/63A##F	WTAV##PCJL
/60-E###H	WTB###SAD15JTB	/63A##X	WTAV##PCSYL
		/63A##Y	WTAV##PCSYL-1
		/63A##Y-2 thru -64	WTAV##PCSYL-2 thru -64
		/63A##Y-0	WTAV##PCSYL-0
## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70			
MIL-C-55302/61			
/61A##	WTB##PR7J		
/61B##	WTB##PR9J		
/61C##	WTB##PR11J		

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/63		MIL-C-55302/64 - Standard Insertion Force Contacts - or - MIL-C-55302/64L - Low Insertion Force Contacts	
MIL Number	W Series	MIL Number	W Series
/63B##L /63B##M /63B##S /63B##H /63B##F	WTA##PD9JTL WTA##PD9JT WTA##PD9JTA WTA##PD9JTB WTAV##PD9JL	/64-A##F /64-A##X /64-A##Y /64-A##Y-2 thru -64 /64-A##Y-0	WTA##SACJL WTAX##SACSYL WTAX##SACSYL-1 WTAX##SACSYL-2 thru -64 WTAX##SACSYL-0
/63B##X /63B##Y /63B##Y-2 thru -64 /63B##Y-0	WTAV##PD9SYL WTAV##PD9SYL-1 WTAV##PD9SYL-2 thru -64 WTAV##PD9SYL-0	/64-B##F /64-B##X /64-B##Y /64-B##Y-2 thru -64 /64-B##Y-0	WTA##SAD9JL WTAX##SAD9SYL WTAX##SAD9SYL-1 WTAX##SAD9SYL-2 thru -64 WTAX##SAD9SYL-0
/63C##L /63C##M /63C##S /63C##H /63C##F	WTA##PD11JTL WTA##PD11JT WTA##PD11JTA WTA##PD11JTB WTAV##PD11JL	/64-C##F /64-C##X /64-C##Y /64-C##Y-2 thru -64 /64-C##Y-0	WTA##SAD11JL WTAX##SAD11SYL WTAX##SAD11SYL-1 WTAX##SAD11SYL-2 thru -64 WTAX##SAD11SYL-0
/63C##X /63C##Y /63C##Y-2 thru -64 /63C##Y-0	WTAV##PD11SYL WTAV##PD11SYL-1 WTAV##PD11SYL-2 thru -64 WTAV##PD11SYL-0	/64-D##F /64-D##X /64-D##Y /64-D##Y-2 thru -64 /64-D##Y-0	WTA##SAW40JL WTAX##SAW40SYL WTAX##SAW40SYL-1 WTAX##SAW40SYL-2 thru -64 WTAX##SAW40SYL-0
/63D##L /63D##M /63D##S /63D##H /63D##F	WTA##PF3JTL WTA##PF3JT WTA##PF3JTA WTA##PF3JTB WTAV##PF3JL	/64-E##F /64-E##X /64-E##Y /64-E##Y-2 thru -64 /64-E##Y-0	WTA##SAF3JL WTAX##SAF3SYL WTAX##SAF3SYL-1 WTAX##SAF3SYL-2 thru -64 WTAX##SAF3SYL-0
/63D##X /63D##Y /63D##Y-2 thru -64 /63D##Y-0	WTAV##PF3SYL WTAV##PF3SYL-1 WTAV##PF3SYL-2 thru -64 WTAV##PF3SYL-0	/64-F##F /64-F##X /64-F##Y /64-F##Y-2 thru -64 /64-F##Y-0	WTA##SAF6JL WTAX##SAF6SYL WTAX##SAF6SYL-1 WTAX##SAF6SYL-2 thru -64 WTAX##SAF6SYL-0
/63E##L /63E##M /63E##S /63E##H /63E##F	WTA##PF6JTL WTA##PF6JT WTA##PF6JTA WTA##PF6JTB WTAV##PF6JL		
/63E##X /63E##Y /63E##Y-2 thru -64 /63E##Y-0	WTAV##PF6SYL WTAV##PF6SYL-1 WTAV##PF6SYL-2 thru -64 WTAV##PF6SYL-0		

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		Number of Contacts: 160	
MIL-C-55302/65 and /66 - Standard Insertion Force Contacts - or - MIL-C-55302/65L and /66L - Low Insertion Force Contacts		MIL-C-55302/139	
MIL Number	W Series	MIL Number	W Series
/65-##X	WTKA##SASY	/139B160X	WG160SAD7SY
/65-##Y	WTKA##SASY-1	/139B160Y	WG160SAD7SY-1
/65-##Y-2 thru -64	WTKA##SASY-2 thru -64	/139B160Y-2 thru -64	WG160SAD7SY-2 thru -64
/65-##Y-0	WTKA##SASY-0	/139B160Y-0	WG160SAD7SY-0
/65-##F	WTKA##SAJ	/139B160F	WG160SAD7J
/65-##S	WTKA##SAJTA	/139B160S	WG160SAD7JTA
/65-##H	WTKA##SAJTB	/139B160H	WG160SAD7JTB
/65-01 Crimp Contact	WTK2222S	/139C160X	WG160SAD9SY
/65-02 Crimp Contact	WTK2222SA Low Force Socket	/139C160Y	WG160SAD9SY-1
/66-##L	WTDXA##SAJTL	/139C160Y-2 thru -64	WG160SAD9SY-2 thru -64
/66-##M	WTDXA##SAJT	/139C160Y-0	WG160SAD9SY-0
/66-##S	WTDXA##SAJTA	/139C160F	WG160SAD9J
/66-##F	WTDXA##SAJ	/139C160S	WG160SAD9JTA
/66-##H	WTDXA##SAJTB	/139C160H	WG160SAD9JTB
MIL-C-55302/138		Number of Contacts: 160	
/138A160X	WG160PR7SY	/139D160X	WG160SAW40SY
/138A160Y	WG160PR7SY-1	/139D160Y	WG160SAW40SY-1
/138A160Y-2 thru -64	WG160PR7SY-2 thru -64	/139D160Y-2 thru -64	WG160SAW40SY-2 thru -64
/138A160Y-0	WG160PR7SY-0	/139D160Y-0	WG160SAW40SY-0
/138A160F	WG160PR7J	/139D160F	WG160SAW40J
/138A160S	WG160PR7JTA	/139D160S	WG160SAW40JTA
/138A160H	WG160PR7JTB	/139D160H	WG160SAW40JTB
/138B160X	WG160PR9SY	/139E160X	WG160SAD11SY
/138B160Y	WG160PR9SY-1	/139E160Y	WG160SAD11SY-1
/138B160Y-2 thru -64	WG160PR9SY-2 thru -64	/139E160Y-2 thru -64	WG160SAD11SY-2 thru -64
/138B160Y-0	WG160PR9SY-0	/139E160Y-0	WG160SAD11SY-0
/138B160F	WG160PR9J	/139E160F	WG160SAD11J
/138B160S	WG160PR9JTA	/139E160S	WG160SAD11JTA
/138B160H	WG160PR9JTB	/139E160H	WG160SAD11JTB
/138C160X	WG160PR11SY	/139F160X	WG160SAF3SY
/138C160Y	WG160PR11SY-1	/139F160Y	WG160SAF3SY-1
/138C160Y-2 thru -64	WG160PR11SY-2 thru -64	/139F160Y-2 thru -64	WG160SAF3SY-2 thru -64
/138C160Y-0	WG160PR11SY-0	/139F160Y-0	WG160SAF3SY-0
/138C160F	WG160PR11J	/139F160F	WG160SAF3J
/138C160S	WG160PR11JTA	/139F160S	WG160SAF3JTA
/138C160H	WG160PR11JTB	/139F160H	WG160SAF3JTB
MIL-C-55302/139		Number of Contacts: 160	
/139A160X	WG160SACSY	/139H160X	WG160SAF6SY
/139A160Y	WG160SACSY-1	/139H160Y	WG160SAF6SY-1
/139A160Y-2 thru -64	WG160SACSY-2 thru -64	/139H160Y-2 thru -64	WG160SAF6SY-2 thru -64
/139A160Y-0	WG160SACSY-0	/139H160Y-0	WG160SAF6SY-0
/139A160F	WG160SACJ	/139H160F	WG160SAF6J
/139A160S	WG160SACJTA	/139H160S	WG160SAF6JTA
/139A160H	WG160SACJTB	/139H160H	WG160SAF6JTB

The AirBorn Advantage

Model-To-Market
Solutions



Custom
Power
Systems



COTS VPX
Power Supply
Power Blade



Flexible
Circuit
Assemblies



Cable
Assemblies



FUZE
Assemblies



Active
Optical
Assemblies



Rectangular
W Series



Rectangular
R Series



Micro D
M Series



Nano D
N Series



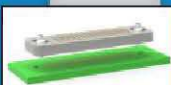
High-Speed
Rectangular
verSI



Modular Hybrid
SInergy



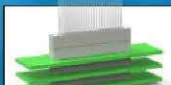
Macro D
RockT



Z Axis Interposer
Z Series



High-Speed
Micro D
microSI



Stackable
RC Series



Circulars
Series 360



Strip Connector
AirStrip



PowerAmp
13A or 23A



Rugged Circulars
TriMate

WSC-5.24

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