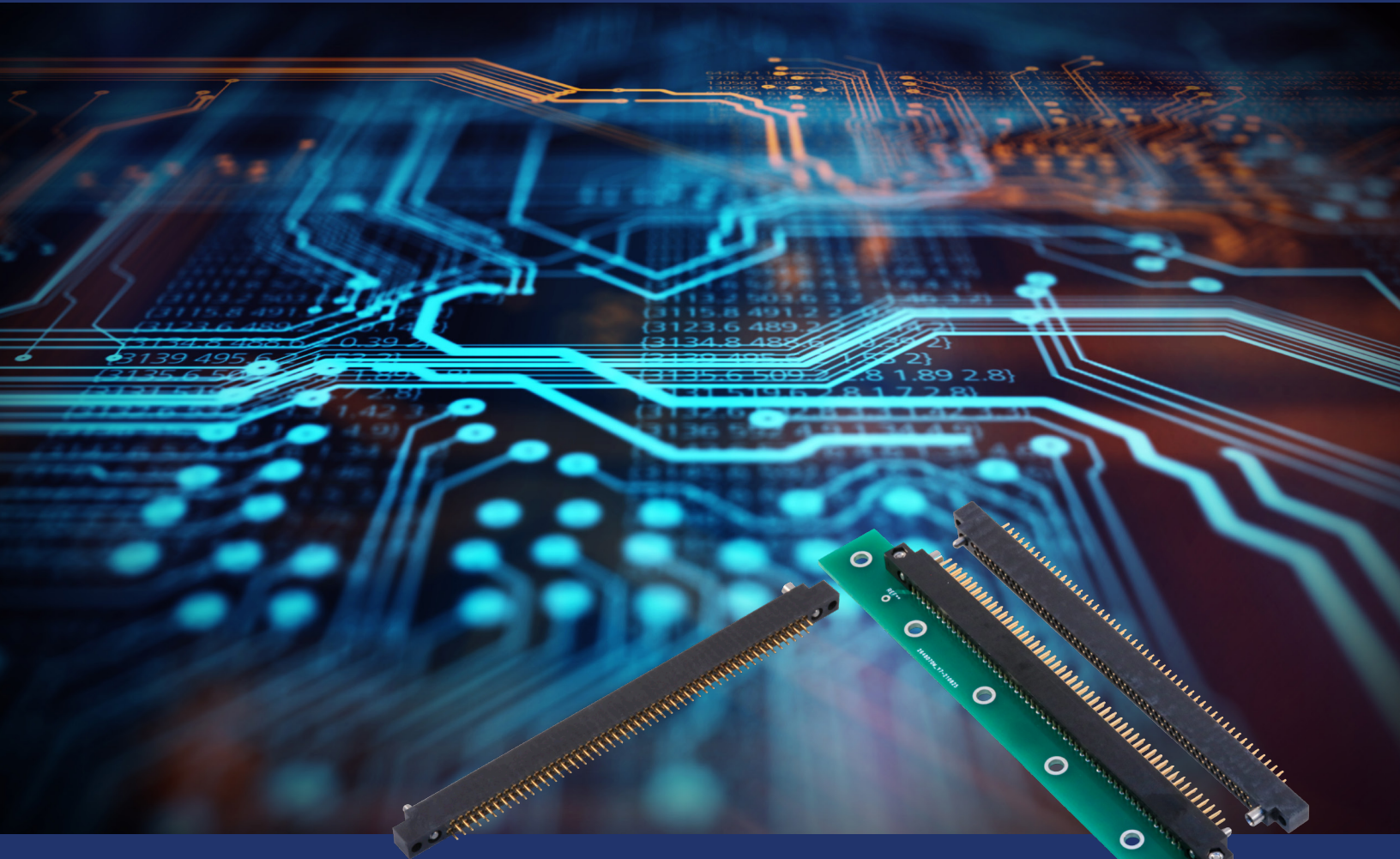


MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



GLENAIR SIGNATURE STANDARD DENSITY
GTB AND HIGH-DENSITY GTC SERIES

Rectangular I/O and Printed Circuit Board Connectors IAW MIL-DTL-55302

NOVEMBER 2026



GTB AND GTC SERIES MIL-DTL-55302 TYPE CONNECTORS

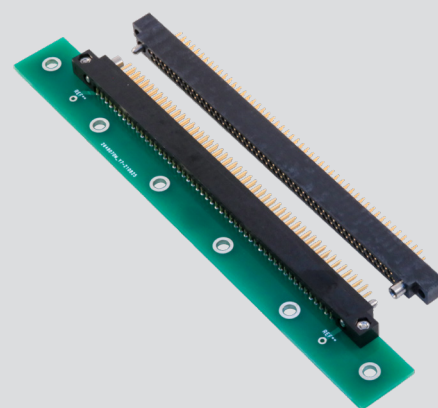
Rigorous rectangular plugs and receptacles optimized for high-reliability interconnections within printed circuit sub-assemblies

Glenair manufactures high-reliability MIL-DTL-55302 Type Board and I/O-to-Board Connectors to deliver relentless, mission-critical performance in severe aerospace and defense environments. We design these rugged rectangular plugs and receptacles to conquer heavy shock and vibration, safeguarding your single-sided, double-sided, and dense multilayer printed wiring boards against field failures. When off-the-shelf connectors compromise your system integrity, choose Glenair for engineered reliability.

High-Availability Contact Grid Profiles

We build our Mil-Spec Rectangular Connectors to optimize board real estate and maximize contact density:

- **GTB Standard Density (.100" Centers):** Our two-row arrangements provide a foundational 0.100-inch (2.54 mm) center-to-center footprint. They map seamlessly to standard board-to-board layouts and offer direct comparability to legacy AirBorn Series W architectures.
- **GTC High Density (.075" Centers):** When spatial limitations demand tighter packaging, our 0.075-inch (1.91 mm) center-to-center high-density configuration answers the call. These advanced mini-arrays deliver maximum pin counts within shrunk sub-assembly spaces without risking electrical shorts and also comparable to legacy AirBorn Series RM. For even tighter layouts, explore our HD Stacker Board-to-Board Connectors featuring an ultra-dense .0625" pitch.



FEATURES

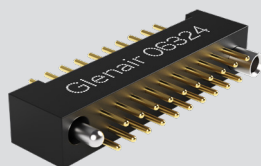
- IAW MIL-DTL-55302
- Fully compatible with IPC-2221 and MIL-PRF-31032 standards
- Compatible with single-sided, double-sided, and multilayer printed wiring boards
- Straight and Right Angle PCB, Flex PCB, and solder cup terminations
- Solder dipped terminals standard; optional gold plated terminals available

GTB AND GTC SERIES • MIL-DTL-55302 TYPE

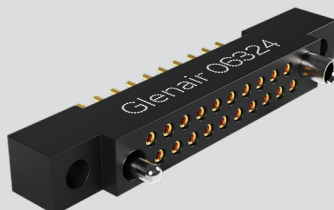
Rectangular I/O and Printed Circuit Board Connectors

Product overview

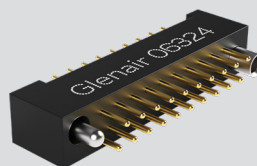
GTB STANDARD DENSITY



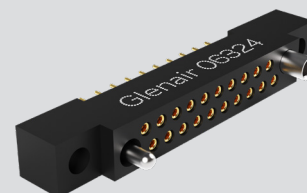
GTBB-ST: Pin or Socket Straight PCB Connector without Mounting Ears



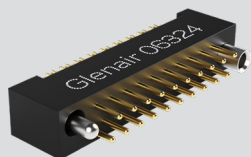
GTBA-ST: Socket Straight PCB Connector with Mounting Ears



GTBB-SF: Pin or Socket Straight Flex PCB Connector without Mounting Ears



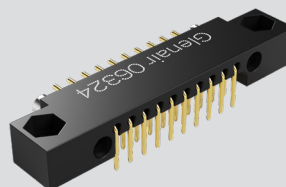
GTBA-SF: Socket Straight Flex PCB Connector with Mounting Ears



GTBB-SC: Pin or Socket Solder Cup Connector without Mounting Ears



GTBA-SC: Socket Solder Cup Connector with Mounting Ears

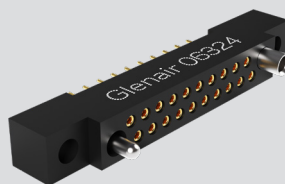


GTBA-RA: Pin Right Angle PCB Connector with Mounting Ears

GTC HIGH DENSITY



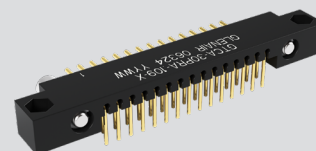
GTCA-ST: Socket Straight PCB Connector with Mounting Ears



GTCA-SF: Socket Straight Flex PCB Connector with Mounting Ears



GTCA-SC: Socket Solder Cup Connector with Mounting Ears



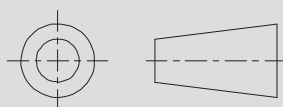
GTCA-RA: Pin Right Angle PCB Connector with Mounting Ears

TOLERANCES

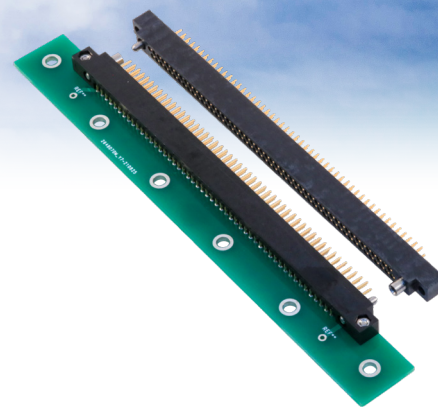
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCH (MM).

FRACTIONS:	1/16
ANGLES:	2
DECIMALS:	.X
	.XX
	.XX
	.XXXX
	.1 (2.54)
	.01 (0.25)
	.005 (0.13)
	.0010 (0.03)

INTERPRET GD&T
IAW ASME Y14.5-2009



THIRD ANGLE PROJECTION



GTB SERIES • MIL-DTL-55302 TYPE

Standard-density I/O-to-board and board-to-board rectangular connectors for mission-critical aerospace applications

Standard-density I/O-to-board and board-mount rectangular connectors for mission-critical aerospace applications ensuring interoperability in critical, high-density electronic systems. Connectors feature 0.100 inch center-to-center spacing 2-row designs; comparable to AirBorn Series W connectors. GTB Series connectors are designed for use with printed circuit sub-assemblies using single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. Connector features include pin or socket contacts with vertical PCB, solder cup, and PCB flex termination. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals and rated to 5.0 amperes. Operates in extreme temperatures from -65° C to +125° C. Ideal for parallel, perpendicular, wire-to-board, and card extender configurations.

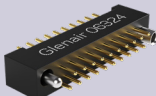
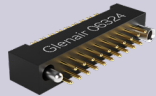
FEATURES

- IAW MIL-DTL-55302
- Contacts set on .100" centers
- Size #22 contacts
- Compatible with single-sided, double-sided, and multilayer printed wiring boards
- Straight and Right Angle PCB, Flex PCB, and solder cup terminations
- Solder dipped terminals standard; optional gold plated terminals available

Rectangular I/O and Printed Circuit Board Connectors

GTB connector product selection guide

Featuring size #22 contacts and .100" contact spacing

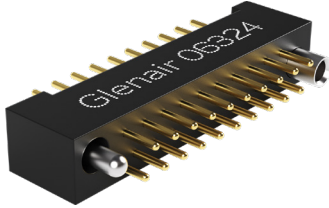
PRODUCT SELECTION GUIDE					
Connector	Description	Page Number	Connector	Description	Page Number
	GTBB-ST - Straight PCB Vertical Mount Connector, Pin or Socket Contacts, without Mounting Ears	6		GTBA-SC - Straight PCB Vertical Mount Connector, with Solder Cup Terminated Socket Contacts, and Mounting Ears	16
	GTBA-ST - Straight PCB Vertical Mount Connector, Socket Contacts, and Mounting Ears	8		GTBA-RA - Right Angle PCB Connector, with Pin Contacts and Mounting Ears	18
	GTBB-SF - Straight PCB Vertical Mount Flex Terminated Connector, with Pin or Socket Contacts, without Mounting Ears	10	GTB PCB Connector Hardware Options		20
	GTBA-SF - Straight PCB Vertical Mount Flex Terminated Connector, with Socket Contacts, and Mounting Ears	12	GTBA-RA Right Angle PCB Layouts		23
	GTBB-SC - Straight PCB Vertical Mount Connector, with Solder Cup Terminated Pin or Socket Contacts, without Mounting Ears	14	GTBA-ST Straight and and GTBA-SF Straight Flex PCB Layouts		28

STANDARD DENSITY

55302 GTB PART NUMBER OVERVIEW				
Mounting Ears	Drawing	Description	Contact	Contact Arrangemnts
Connectors with mounting ears	GTBA-ST	PC Tail	Pin, Socket	(1 Bay) 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70w
	GTBA-RA	Right Angle PC Tail	Pin	
	GTBA-SC	Solder Cup	Socket	
	GTBA-SF	Flex PC Tail	Socket	(2 Bay) 90, 100, 120
Connectors without mounting ears	GTBB-ST	PC Tail	Pin, Socket	10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70
	GTBB-SC	Solder Cup	Socket	
	GTBB-SF	Flex PC Tail	Socket	
	GTBB-CR	Crimp (non mil spec)	Pin, Socket	10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70

GTBB-ST straight PCB vertical mount connector, with pin or socket contacts, .100" Spacing, without mounting ears

STANDARD DENSITY



NOTES

- See GTB connector hardware option details on page 20
- See GTBB-ST (straight) PCB pin layouts on page 32; socket layouts on page 36
- Performance Specifications:
 - Current Rating: 5 AMP
 - DWV: 1000 VAC Sea Level
 - Insulation Resistance: 5000 Megohms Minimum @ 500 VDC
 - Contact Resistance: 10 Milliohms
 - Operating Temperature: -65° C. to +125° C.
 - Mating Force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 500 Mating Cycles
- Materials and Finishes
 - Insulator: Polyphenylene Sulfide (PPS)
 - Contacts: Copper Alloy, Gold over Nickel Plating
 - Hardware: Copper Alloy, Nickel Plated and/or 300 Series Stainless Steel, Passivated

GTBB-ST Series rectangular size #22 PCB connectors are designed for use with printed circuit sub-assemblies using single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. Connector features pin or socket contacts with vertical PCB termination on .100" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

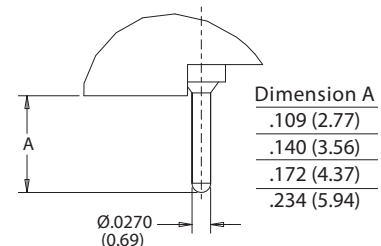
HOW TO ORDER

Sample Part Number		GTBB	-10	P	ST	-.109	-X	-513
Series	GTBB = PCB connector without mounting ears, .100" spacing							
Contact Layout	-10, -14, -20, -24, -26, -30, -36, -40, -44, -50, -54, -56, -60, -66, -70							
Contact Type	P = pin (figure 1) S = socket (figure 2)							
Termination Type	ST = PCB vertical; see termination detail below							
Terminal Length	Length in inches ±.010 -.109, -.140, -.172, -.234; (socket only)							
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -H = turning jackset, hex head -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long -EX = extended guideset, full round -EY-# = extended guideset, polarized -EF = extended fixed jackset							
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code 513							

PLUG AND RECEPTACLE CONNECTOR DIMENSIONS

Contact Layout	A	B	C	Contact Layout	A	B	C
-10	0.850 (21.59)	0.650 (16.51)	0.400 (10.16)	-44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)
-14	1.050 (26.67)	0.850 (21.59)	0.600 (15.24)	-50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)
-20	1.350 (34.29)	1.150 (29.21)	0.900 (22.86)	-54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)
-24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	-56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)
-26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	-60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)
-30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	-66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)
-36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	-70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)
-40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)				

PCB TERMINATION DETAIL (ST)



Rectangular I/O and Printed Circuit Board Connectors

STANDARD DENSITY

Figure 1 consists of three mechanical drawings of a test specimen. Drawing (a) is a top view showing a rectangular plate with a series of circular holes. The overall length is labeled B, and the overall width is .150 (3.81). The distance from the left edge to the first hole is .025 (0.64). The center-to-center distance between adjacent holes is .100 (2.54) TYP. The distance from the last hole to the right edge is also .100 (2.54). The total length B is also labeled as 2X (C). Drawing (b) is a side view showing the profile of the specimen. The overall height is .335 (8.51). The fins are spaced at a pitch of $\varnothing 0.0295$ (0.75) TYP. The height of the fins is .150 (3.81) TYP. Drawing (c) is a bottom view showing the underside of the specimen. The overall length is labeled A. The distance from the left edge to the first hole is .250 (6.35). The holes are arranged in a grid pattern.

The diagram shows three views of a 100-pin connector:

- Top View:** Shows the 100 pins arranged in two rows of 50. Dimensions include:
 - Pin pitch: .100 (2.54)
 - Distance from edge to first pin: .100 (2.54)
 - Distance from edge to last pin: .100 (2.54) TYP
 - Distance between rows: .075 (1.91)
 - Distance from edge to center of first row: .150 (3.81)
 - Distance from edge to center of second row: .100 (2.54) TYP
 - Distance from edge to center of last pin: .075 (1.91) TYP
 - Distance from edge to center of last pin: .025 (0.64)
 - Overall length: 2 (50.80) X (C)
 - Position 1 (POS #1) is marked at the first pin.
- Side View:** Shows the profile of the connector. Dimensions include:
 - Overall height: .335 (8.51)
 - Overall length: B
 - Center of gravity symbol (C) is shown.
- End View:** Shows the 100 pins from the end. Dimensions include:
 - Overall width: .250 (6.35)
 - Overall length: A

GTBA-ST straight PCB vertical mount connector, with socket contacts, mounting ears, and .100" Spacing

STANDARD DENSITY



NOTES

- See GTB connector hardware option details on page 20
- See GTBA-ST straight PCB socket layouts on page 28
- Performance specifications:
 - Current Rating: 5 AMP
 - DWV: 1000 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 10 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 500 Mating Cycles
- Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

GTBA-ST series rectangular size #22 straight PCB receptacles are designed for use with printed circuit sub-assemblies using single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. Connector features vertical PCB termination with socket contacts on .100" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

HOW TO ORDER

Sample Part Number		GTBA	-120	S	ST	-.109	-X	-513
Series	GTBA = PCB connector with mounting ears, .100" spacing							
Contact Layout	1 BAY: -10, -14, -20, -24, -26, -30, -36, -40, -44, -50, -54, -56, -60, -66, -70 2 BAY: -90, -100, -120							
Contact Type	S = socket							
Termination Type	ST = PCB vertical; see termination detail below							
Terminal Length	Length in inches ±.010 -.109, -.140, -.172, -.234 see detail views for available options							
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -H = turning jackset, hex head -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long -EX = extended guideset, full round -EY-# = extended guideset, polarized -EF = extended fixed jackset							
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513							

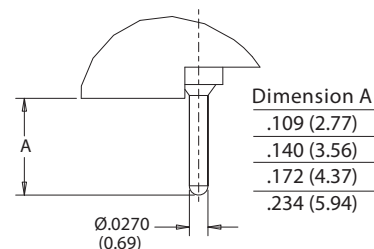
1 BAY RECEPTACLE DIMENSIONS

Contact Layout	A	B	C	D	E
-10	0.850 (21.59)	0.650 (16.51)	0.400 (10.16)	1.100 (27.94)	1.350 (34.29)
-14	1.050 (26.67)	0.850 (21.59)	0.600 (15.24)	1.300 (33.02)	1.550 (39.37)
-20	1.350 (34.29)	1.150 (29.21)	0.900 (22.86)	1.600 (40.64)	1.850 (46.99)
-24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	1.800 (45.72)	2.050 (52.07)
-26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	1.900 (48.26)	2.150 (54.61)
-30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	2.100 (53.34)	2.350 (59.69)
-36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	2.400 (60.96)	2.650 (67.31)
-40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)	2.600 (66.04)	2.850 (72.39)
-44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)	2.800 (71.12)	3.050 (77.47)
-50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)	3.100 (78.74)	3.350 (85.09)
-54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)	3.300 (83.82)	3.550 (90.17)
-56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)	3.400 (86.36)	3.650 (92.71)
-60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)	3.600 (91.44)	3.850 (97.79)
-66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)	3.900 (99.06)	4.150 (105.41)
-70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)	4.100 (104.14)	4.350 (110.49)

2 BAY RECEPTACLE DIM

Contact Layout	A	B	C	D	E	F
-90	2.475 (62.87)	2.700 (68.58)	5.650 (143.51)	5.150 (130.81)	2.200 (55.88)	2.100 (53.34)
-100	2.725 (69.22)	2.950 (74.93)	6.150 (156.21)	5.650 (143.51)	2.400 (60.96)	2.400 (60.96)
-120	3.225 (81.92)	3.450 (87.63)	7.150 (181.61)	6.650 (168.91)	2.900 (73.66)	2.900 (73.66)

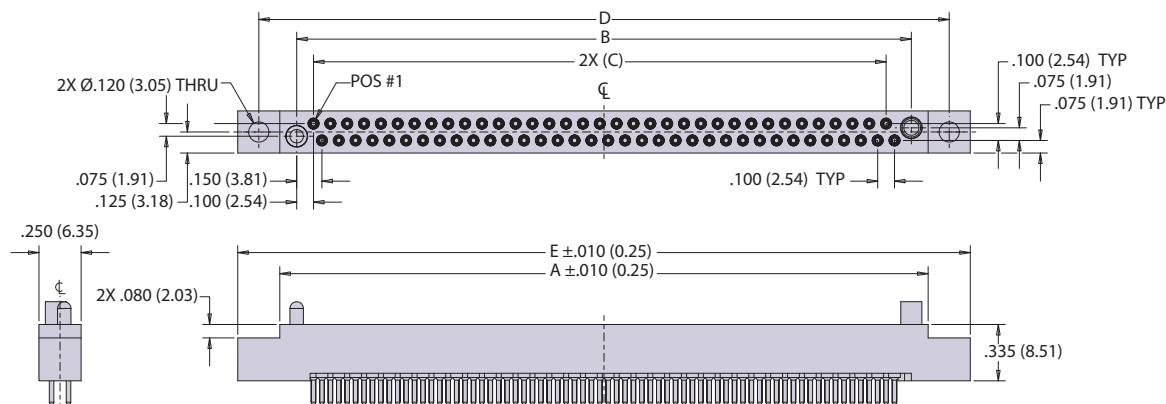
PCB TERMINATION DETAIL (ST)



Rectangular I/O and Printed Circuit Board Connectors

GTBA-ST straight PCB vertical mount connector, with socket contacts, mounting ears, and .100" Spacing

RECEPTACLE CONNECTOR, SOLDER CUP SOCKET CONTACTS



RECEPTACLE CONNECTOR, SOLDER CUP SOCKET CONTACTS

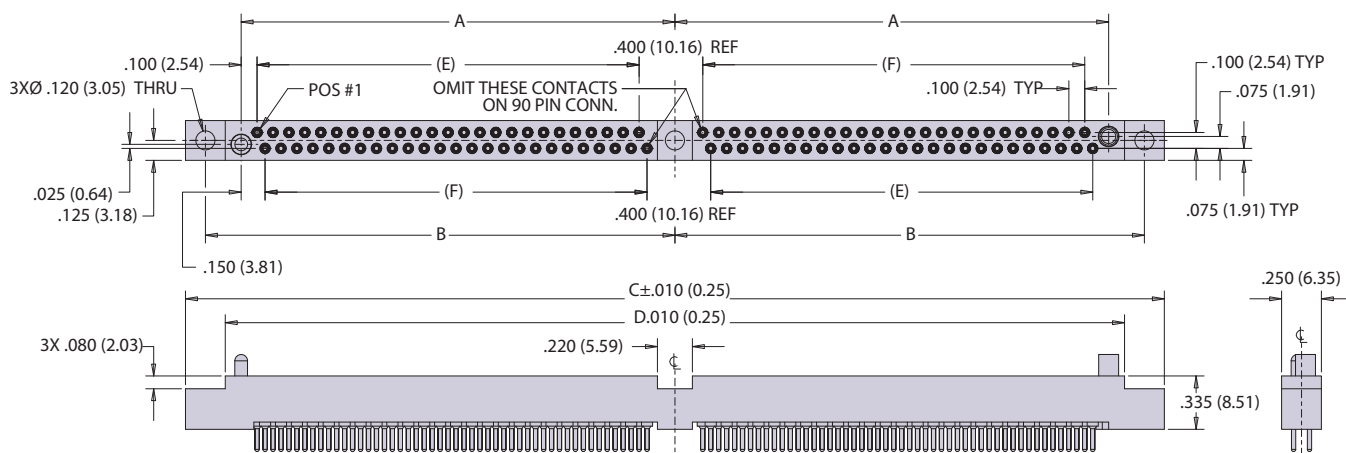
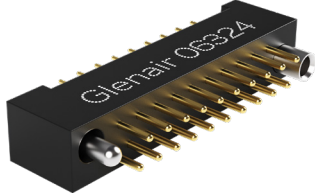


FIGURE 2. RECEPTACLE CONNECTOR, VERTICAL SOCKET CONTACTS (2 BAY)

STANDARD DENSITY

GTBB-SF straight PCB vertical mount flex terminated connector, with pin or socket contacts, .100" Spacing, without mounting ears

STANDARD DENSITY



NOTES

- See GTB connector hardware option details on page 20
- See GTBB-SF straight PCB pin layout patterns on page 32 and socket layouts on page 36
- Performance Specifications:
 - Current Rating: 5 AMP
 - DWV: 1000 VAC Sea Level
 - Insulation Resistance: 5000 Megohms Minimum @ 500 VDC
 - Contact Resistance: 10 Milliohms
 - Operating Temperature: -65° C. to +125° C.
 - Mating Force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 500 Mating Cycles
- Materials and Finishes
 - Insulator: Polyphenylene Sulfide (PPS)
 - Contacts: Copper Alloy, Gold over Nickel Plating
 - Hardware: Copper Alloy, Nickel Plated and/or 300 Series Stainless Steel, Passivated

GTBB-SF Series rectangular size #22 PCB receptacles are designed for use with printed circuit sub-assemblies using single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. Connector features pin or socket contacts with vertical flex termination on .100" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

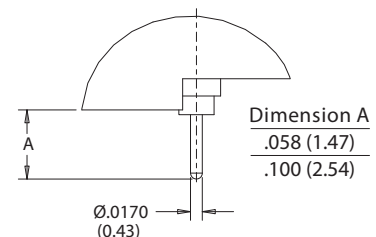
HOW TO ORDER

Sample Part Number	GTBB	-10	S	SF	-.100	-X	-513
Series	GTBB = PCB connector without mounting ears, .100" spacing						
Contact Layout	-10, -14, -20, -24, -26, -30, -36, -40, -44, -50, -54, -56, -60, -66, -70						
Contact Type	P = pin (figure 1) S = socket (figure 2)						
Termination Type	SF = flex vertical; see termination detail below						
Terminal Length	Length in inches ±.010 -.058, -.100; see detail views for available options						
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -H = turning jackset, hex head -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long -EX = extended guideset, full round -EY-# = extended guideset, polarized -EF = extended fixed jackset						
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513						

PLUG AND RECEPTACLE CONNECTOR DIMENSIONS

Contact Layout	A	B	C	Contact Layout	A	B	C
-10	0.850 (21.59)	0.650 (16.51)	0.400 (10.16)	-44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)
-14	1.050 (26.67)	0.850 (21.59)	0.600 (15.24)	-50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)
-20	1.350 (34.29)	1.150 (29.21)	0.900 (22.86)	-54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)
-24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	-56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)
-26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	-60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)
-30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	-66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)
-36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	-70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)
-40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)				

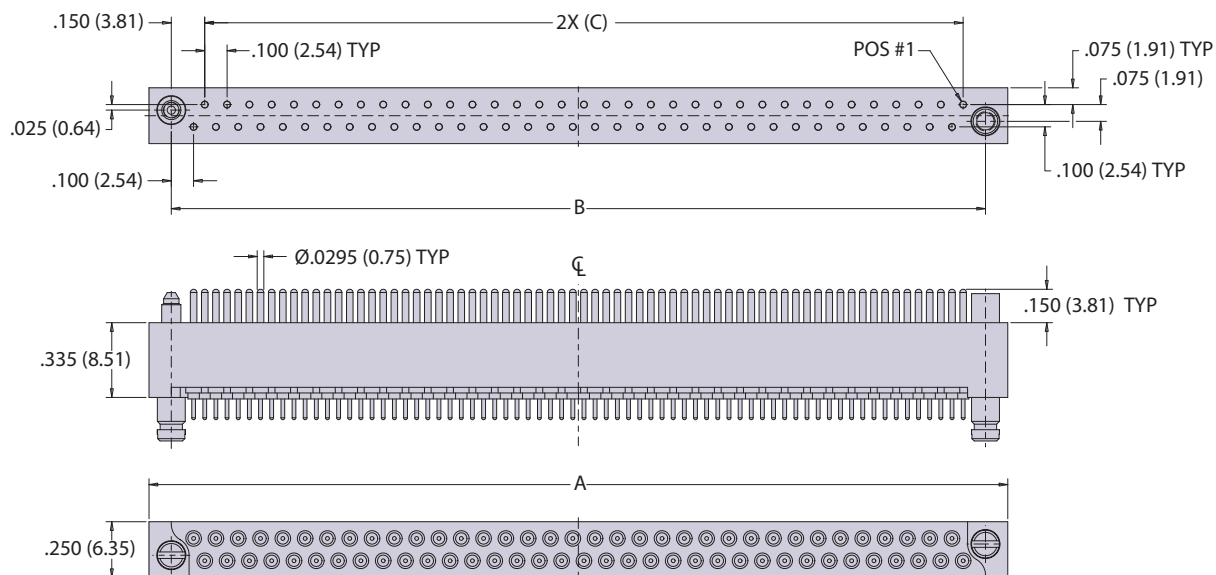
PCB FLEX TERMINATION DETAIL (SF)



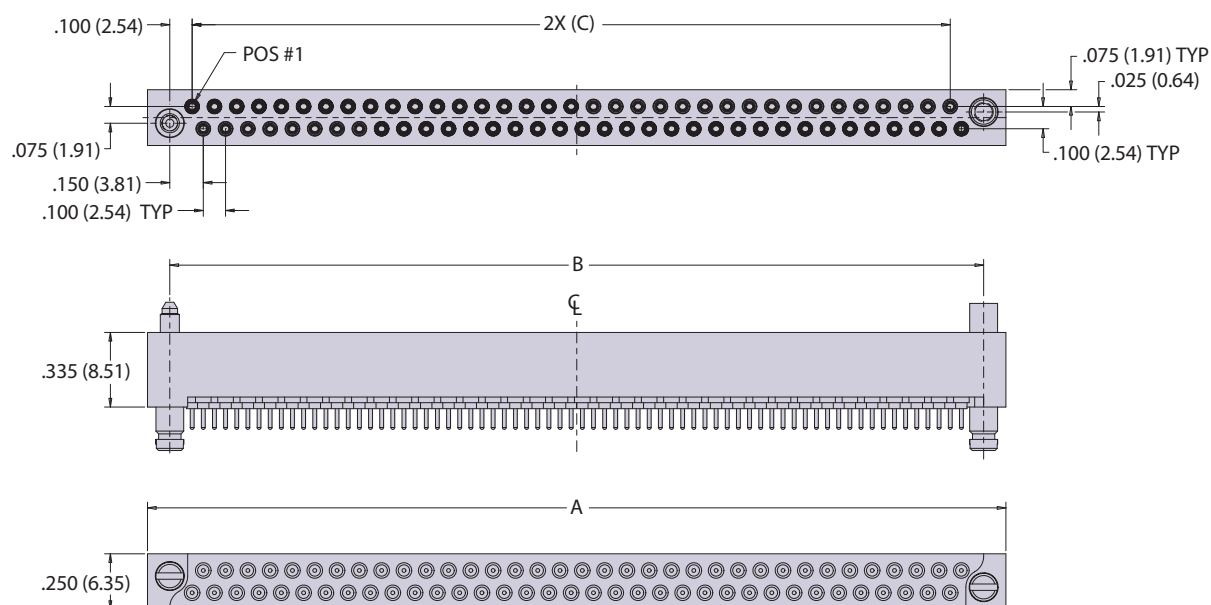
Rectangular I/O and Printed Circuit Board Connectors

GTBB-SF straight PCB vertical mount flex terminated connector, with pin or socket contacts, .100" Spacing, without mounting ears

PLUG CONNECTOR, VERTICAL PIN CONTACTS



RECEPTACLE CONNECTOR, VERTICAL SOCKET CONTACTS



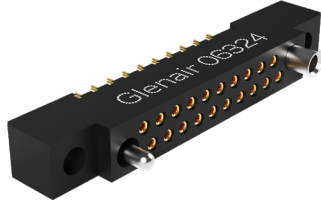
STANDARD DENSITY

GTB AND GTC SERIES • MIL-DTL-55302 TYPE Rectangular I/O and Printed Circuit Board Connectors



GTBA-SF straight PCB vertical mount flex terminated connector, with socket contacts, mounting ears, and .100" Spacing

STANDARD DENSITY



NOTES

- See GTB connector hardware option details on page 20
- See GTBA-SF straight flex PCB socket layouts on page 28
- Performance specifications:
 - Current Rating: 5 AMP
 - DWV: 1000 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 10 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 500 Mating Cycles
- Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

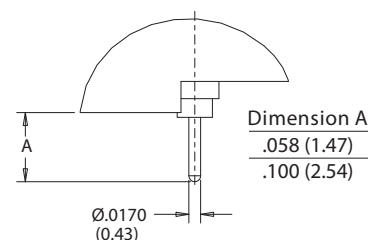
GTBA-SF Series rectangular size #22 PCB receptacles are designed for use with printed circuit subassemblies requiring single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. PCB Connector features vertical flex termination with socket contacts on .100" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

HOW TO ORDER							
Sample Part Number	GTBA	-120	S	SF	-.058	-X	-513
Series	GTBA = PCB connector with mounting ears, .100" spacing						
Contact Layout	1 BAY: -10, -14, -20, -24, -26, -30, -36, -40, -44, -50, -54, -56, -60, -66, -70 2 BAY: -90, -100, -120						
Contact Type	S = socket						
Termination Type	SF = flex vertical; see termination detail below						
Terminal Length	Length in inches ±.010 -.058, -.100						
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -H = turning jackset, hex head -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long -EX = extended guideset, full round -EY-# = extended guideset, polarized -EF = extended fixed jackset						
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513						

1 BAY RECEPTACLE DIMENSIONS					
Contact Layout	A	B	C	D	E
-10	0.850 (21.59)	0.650 (16.51)	0.400 (10.16)	1.100 (27.94)	1.350 (34.29)
-14	1.050 (26.67)	0.850 (21.59)	0.600 (15.24)	1.300 (33.02)	1.550 (39.37)
-20	1.350 (34.29)	1.150 (29.21)	0.900 (22.86)	1.600 (40.64)	1.850 (46.99)
-24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	1.800 (45.72)	2.050 (52.07)
-26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	1.900 (48.26)	2.150 (54.61)
-30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	2.100 (53.34)	2.350 (59.69)
-36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	2.400 (60.96)	2.650 (67.31)
-40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)	2.600 (66.04)	2.850 (72.39)
-44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)	2.800 (71.12)	3.050 (77.47)
-50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)	3.100 (78.74)	3.350 (85.09)
-54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)	3.300 (83.82)	3.550 (90.17)
-56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)	3.400 (86.36)	3.650 (92.71)
-60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)	3.600 (91.44)	3.850 (97.79)
-66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)	3.900 (99.06)	4.150 (105.41)
-70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)	4.100 (104.14)	4.350 (110.49)

2 BAY RECEPTACLE DIM						
Contact Layout	A	B	C	D	E	F
-90	2.475 (62.87)	2.700 (68.58)	5.650 (143.51)	5.150 (130.81)	2.200 (55.88)	2.100 (53.34)
-100	2.725 (69.22)	2.950 (74.93)	6.150 (156.21)	5.650 (143.51)	2.400 (60.96)	2.400 (60.96)
-120	3.225 (81.92)	3.450 (87.63)	7.150 (181.61)	6.650 (168.91)	2.900 (73.66)	2.900 (73.66)

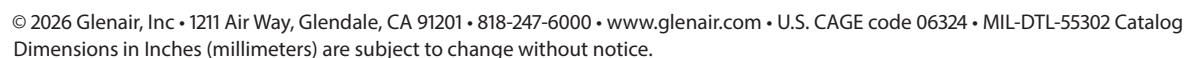
PCB FLEX TERMINATION DETAIL (SF)



Rectangular I/O and Printed Circuit Board Connectors

GTBA-SF straight PCB vertical mount flex termination, socket contact receptacle with mounting ears, .100" Spacing

STANDARD DENSITY

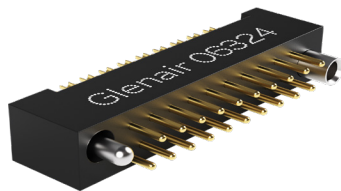


Rectangular I/O and Printed Circuit Board Connectors



GTBB-SC straight PCB vertical mount connector, solder cup terminated pin or socket contacts, .100" Spacing, without mounting ears

STANDARD DENSITY



NOTES

- See GTB connector hardware option details on page 20
- Performance specifications:
 - Current Rating: 5 AMP
 - DWV: 1000 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 10 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 500 Mating Cycles
- Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

GTBA-SC Series rectangular size #22 straight PCB receptacles are designed for use with printed circuit sub-assemblies using single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. Connector features pin or socket contacts with solder cup termination on .100" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

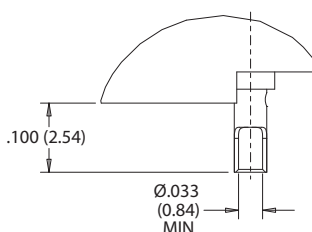
HOW TO ORDER

Sample Part Number		GTBB	-10	S	SC	-X
Series	GTBB = PCB connector without mounting ears, .100" spacing					
Contact Layout	-10, -14, -20, -24, -26, -30, -36, -40, -44, -50, -54, -56, -60, -66, -70					
Contact Type	P = pin (figure 1) S = socket (figure 2)					
Termination Type	SC = solder cup; see termination detail below					
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -H = turning jackset, hex head -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long -EX = extended guideset, full round -EY-# = extended guideset, polarized -EF = extended fixed jackset					

PLUG AND RECEPTACLE CONNECTOR DIMENSIONS

Contact Layout	A	B	C	Contact Layout	A	B	C
-10	0.850 (21.59)	0.650 (16.51)	0.400 (10.16)	-44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)
-14	1.050 (26.67)	0.850 (21.59)	0.600 (15.24)	-50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)
-20	1.350 (34.29)	1.150 (29.21)	0.900 (22.86)	-54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)
-24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	-56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)
-26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	-60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)
-30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	-66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)
-36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	-70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)
-40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)				

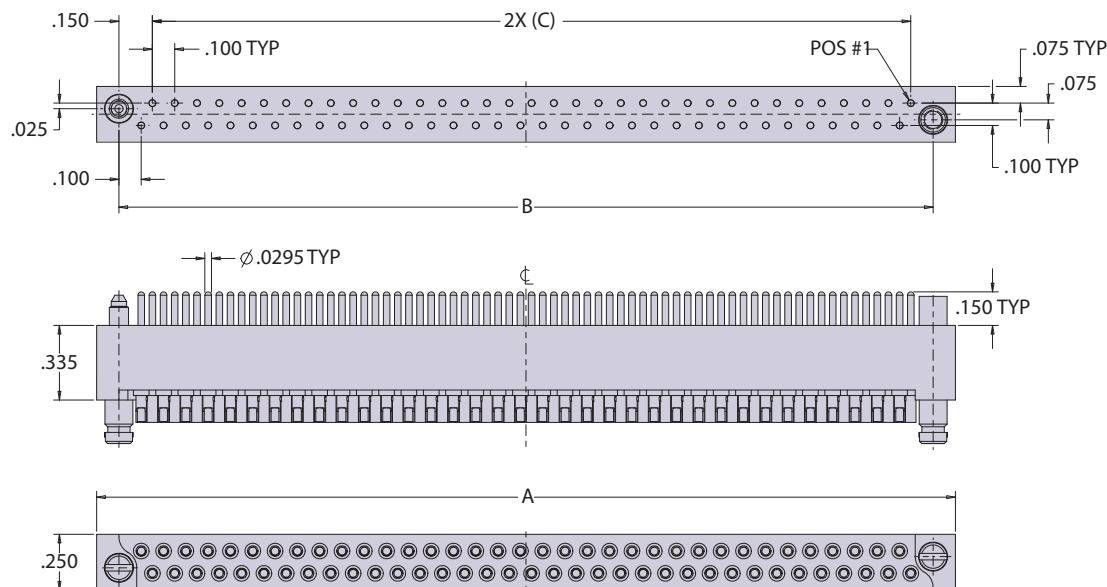
SOLDER CUP TERMINATION DETAIL (SC)



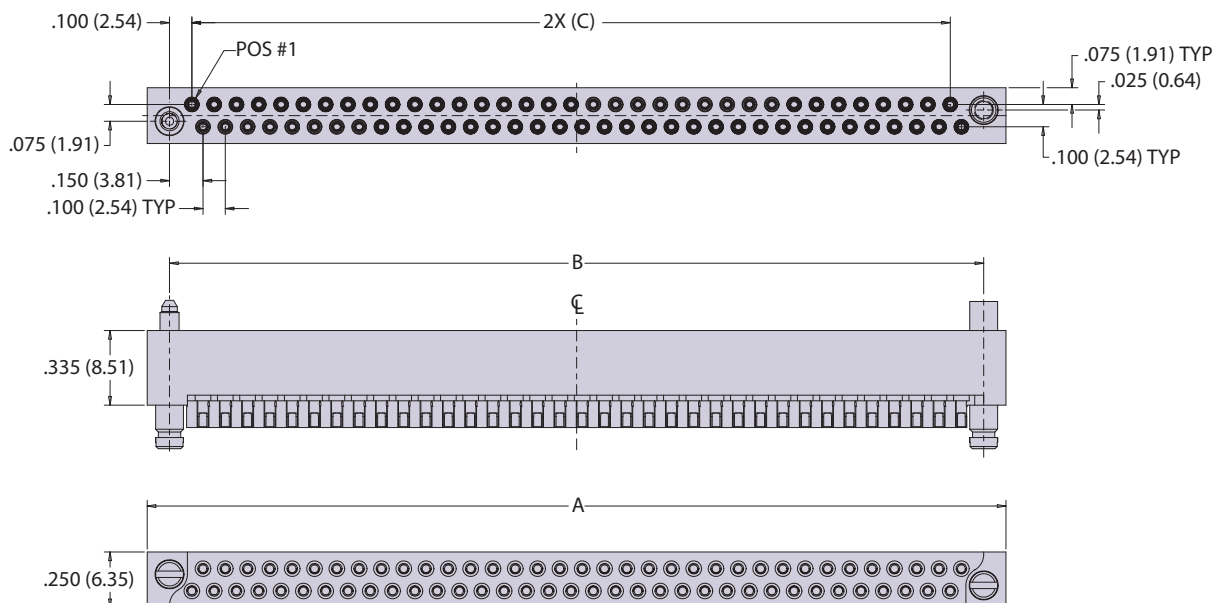
Rectangular I/O and Printed Circuit Board Connectors

GTBB-SC straight PCB vertical mount connector, solder cup terminated pin or socket contacts, .100" Spacing, without mounting ears

PLUG CONNECTOR, SOLDER CUP PIN CONTACTS



RECEPTACLE CONNECTOR, SOLDER CUP SOCKET CONTACTS



STANDARD DENSITY

GTBA-SC straight PCB vertical mount connector, solder cup terminated socket contacts, mounting ears, and .100" spacing

STANDARD DENSITY



GTBA-SC Series rectangular size #22 PCB receptacles are designed for use with printed circuit subassemblies requiring single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. PCB Connector features solder cup termination with socket contacts on .100" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

NOTES

- See GTB connector hardware option details on page 20
- Performance specifications:
 - Current Rating: 5 AMP
 - DWV: 1000 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 10 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 500 Mating Cycles
- Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

HOW TO ORDER

Sample Part Number		GTBA	-120	S	SC	-X
Series	GTBA = PCB connector with mounting ears, .100" spacing					
Contact Layout	1 BAY: -10, -14, -20, -24, -26, -30, -36, -40, -44, -50, -54, -56, -60, -66, -70 2 BAY: -90, -100, -120					
Contact Type	S = socket					
Termination Type	SC = solder cup; see termination detail below					
Hardware Option See note 16	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -H = turning jackset, hex head -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long -EX = extended guideset, full round -EY-# = extended guideset, polarized -EF = extended fixed jackset					

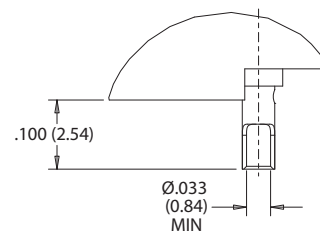
1 BAY RECEPTACLE DIMENSIONS

Contact Layout	A	B	C	D	E
-10	0.850 (21.59)	0.650 (16.51)	0.400 (10.16)	1.100 (27.94)	1.350 (34.29)
-14	1.050 (26.67)	0.850 (21.59)	0.600 (15.24)	1.300 (33.02)	1.550 (39.37)
-20	1.350 (34.29)	1.150 (29.21)	0.900 (22.86)	1.600 (40.64)	1.850 (46.99)
-24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	1.800 (45.72)	2.050 (52.07)
-26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	1.900 (48.26)	2.150 (54.61)
-30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	2.100 (53.34)	2.350 (59.69)
-36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	2.400 (60.96)	2.650 (67.31)
-40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)	2.600 (66.04)	2.850 (72.39)
-44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)	2.800 (71.12)	3.050 (77.47)
-50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)	3.100 (78.74)	3.350 (85.09)
-54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)	3.300 (83.82)	3.550 (90.17)
-56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)	3.400 (86.36)	3.650 (92.71)
-60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)	3.600 (91.44)	3.850 (97.79)
-66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)	3.900 (99.06)	4.150 (105.41)
-70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)	4.100 (104.14)	4.350 (110.49)

2 BAY RECEPTACLE DIMENSIONS

Contact Layout	A	B	C	D	E	F
-90	2.475 (62.87)	2.700 (68.58)	5.650 (143.51)	5.150 (130.81)	2.200 (55.88)	2.100 (53.34)
-100	2.725 (69.22)	2.950 (74.93)	6.150 (156.21)	5.650 (143.51)	2.400 (60.96)	2.400 (60.96)
-120	3.225 (81.92)	3.450 (87.63)	7.150 (181.61)	6.650 (168.91)	2.900 (73.66)	2.900 (73.66)

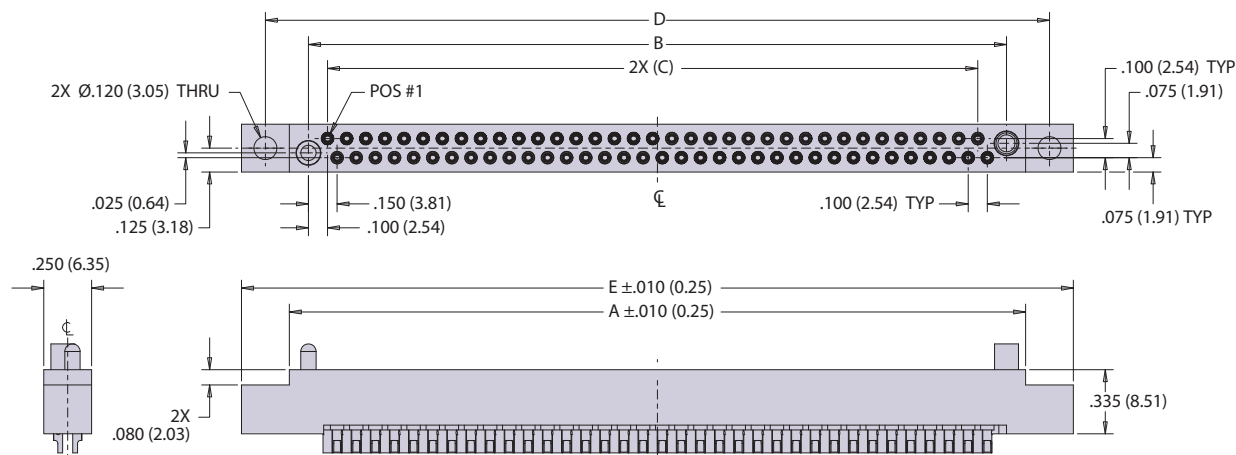
SOLDER CUP TERMINATION DETAIL (SC)



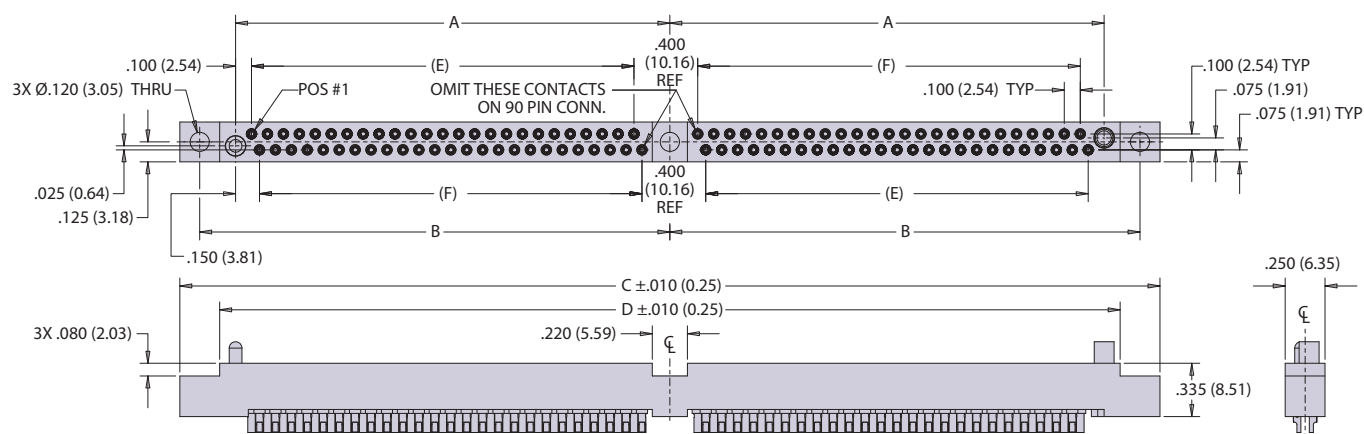
Rectangular I/O and Printed Circuit Board Connectors

GTBA-SC straight PCB vertical mount connector, solder cup terminated socket contacts, mounting ears, and .100" spacing

RECEPTACLE CONNECTOR, VERTICAL SOLDER CONTACTS - 1 BAY



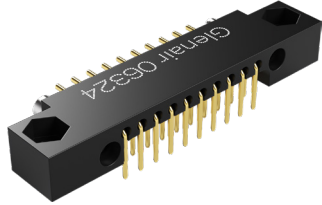
RECEPTACLE CONNECTOR, VERTICAL SOLDER CONTACTS - 2 BAY



STANDARD DENSITY

GTBA-RA right angle PCB connector, pin contacts, mounting ears and .100" spacing

STANDARD DENSITY



NOTES

- See GTB connector hardware option details on page 20
- See GTB right angle PCB layout patterns on page 23
- Performance specifications:
 - Current Rating: 5 AMP
 - DWV: 1000 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 10 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 500 Mating Cycles
- Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

GTBA-RA Series rectangular size #22 PCB plugs are designed for use with printed circuit subassemblies requiring single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. PCB Connector features PC tail termination with pin contacts on .100" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

HOW TO ORDER

Sample Part Number	GTBA	-120	P	RA	-109	-X	-513
Series	GTBA = PCB connector with mounting ears, .100" spacing						
Contact Layout	1 BAY: -10, -14, -20, -24, -26, -30, -36, -40, -44, -50, -54, -56, -60, -66, -70 2 BAY: -90, -100, -120						
Contact Type	P = pin						
Termination Type	RA = PCB right angle						
Terminal Length	Length in inches ±.010 -.109, -.140, -.172						
Hardware Option See note 18	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -H = turning jackset, hex head -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long						
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513						

1 BAY RECEPTACLE DIMENSIONS

Contact Layout	A	B	C	D	E
-10	0.850 (21.59)	0.650 (16.51)	0.400 (10.16)	1.100 (27.94)	1.350 (34.29)
-14	1.050 (26.67)	0.850 (21.59)	0.600 (15.24)	1.300 (33.02)	1.550 (39.37)
-20	1.350 (34.29)	1.150 (29.21)	0.900 (22.86)	1.600 (40.64)	1.850 (46.99)
-24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	1.800 (45.72)	2.050 (52.07)
-26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	1.900 (48.26)	2.150 (54.61)
-30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	2.100 (53.34)	2.350 (59.69)
-36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	2.400 (60.96)	2.650 (67.31)
-40	2.350 (59.69)	2.150 (54.61)	1.900 (48.26)	2.600 (66.04)	2.850 (72.39)
-44	2.550 (64.77)	2.350 (59.69)	2.100 (53.34)	2.800 (71.12)	3.050 (77.47)
-50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)	3.100 (78.74)	3.350 (85.09)
-54	3.050 (77.47)	2.850 (72.39)	2.600 (66.04)	3.300 (83.82)	3.550 (90.17)
-56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)	3.400 (86.36)	3.650 (92.71)
-60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)	3.600 (91.44)	3.850 (97.79)
-66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)	3.900 (99.06)	4.150 (105.41)
-70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)	4.100 (104.14)	4.350 (110.49)

2 BAY RECEPTACLE DIMENSIONS

Contact Layout	A	B	C	D	E	F
-90	2.475 (62.87)	2.700 (68.58)	5.650 (143.51)	5.150 (130.81)	2.200 (55.88)	2.100 (53.34)
-100	2.725 (69.22)	2.950 (74.93)	6.150 (156.21)	5.650 (143.51)	2.400 (60.96)	2.400 (60.96)
-120	3.225 (81.92)	3.450 (87.63)	7.150 (181.61)	6.650 (168.91)	2.900 (73.66)	2.900 (73.66)

Rectangular I/O and Printed Circuit Board Connectors

STANDARD DENSITY

Technical drawing of a 90-pin connector showing three views: top, side, and end view. The drawing includes dimensions in inches and millimeters, and specific callouts for features like washouts and contact positions.

Top View Dimensions:

- Overall width: $3 \times .186$
- Pin pitch: $.400$
- Pin diameter: $3 \times \varnothing .120 (3.05)$ THRU AND $.190 (4.83)$ HEX $\times .107 (2.72)$
- Pin length: $3 \times .080 (2.03)$
- Pin spacing: B
- Pin offset: $C \pm .010$
- Pin diameter: $\varnothing$
- Pin length: $D \pm .010$

Side View Dimensions:

- Pin pitch: $.075 (1.91)$
- Pin diameter: $2 \times .015 (0.38)$ WASHOUT
- Pin length: $.109 (2.77)$ OR $.140 (3.56)$ OR $.172 (4.37)$ $\pm .010 (0.25)$ TYP
- Pin pitch: $.100 (2.54)$ TYP
- Pin diameter: $\varnothing .0250 (0.64)$ TYP
- Pin length: $.400 (10.16)$ REF
- Pin pitch: $.100 (2.54)$ TYP
- Pin length: $.100 (2.54)$ TYP
- Pin pitch: $.250 (6.35)$
- Pin length: $.025 (0.64)$
- Pin pitch: $.075 (1.91)$ TYP
- Pin length: $.150 (3.81)$
- Pin pitch: $.150 (3.81)$ TYP

End View Dimensions:

- Pin pitch: $.0300 (0.76)$ TYP
- Pin length: $.220 (5.59)$
- Pin pitch: $.150 (3.81)$ TYP
- Pin length: $.051 (1.30)$ TYP
- Pin length: $.120 (3.05)$ TYP

Callouts:

- OMIT THESE CONTACTS ON 90 POS CONNECTOR
- POS #1

GTB connector hardware options

STANDARD DENSITY

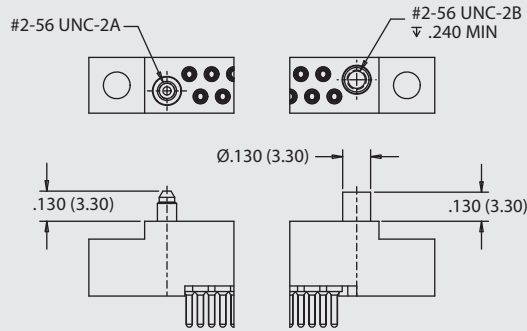


FIGURE 1. FIXED JACKSET (F)

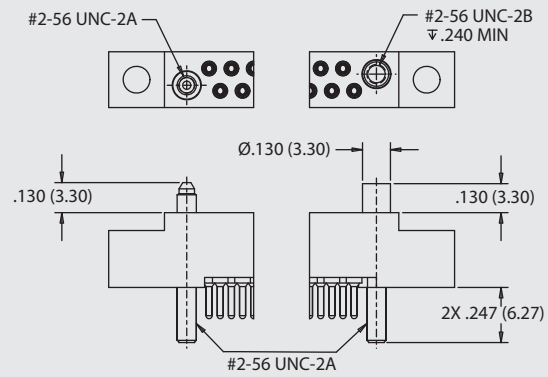


FIGURE 2. EXTENDED FIXED JACKSET (EF)

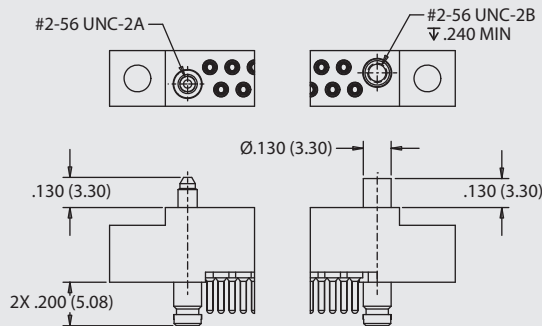


FIGURE 3. TURNING JACKSET, SLOTTED OR HEX (S OR H)

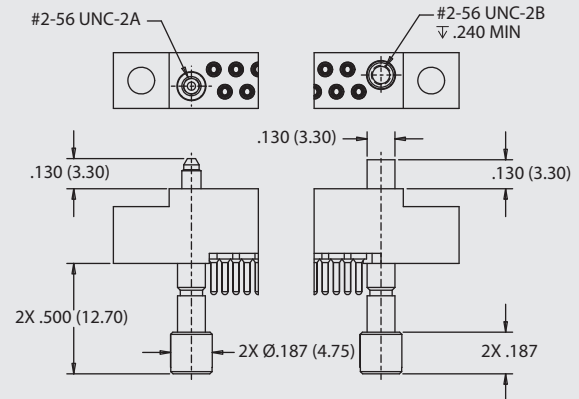


FIGURE 4. TURNING JACKSET, SLOTTED - MED LONG (M)

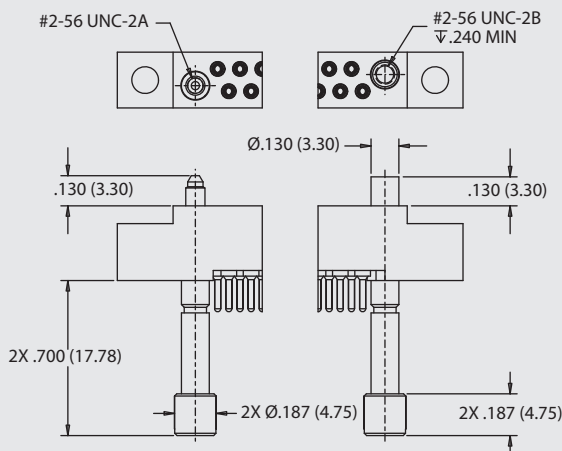


FIGURE 5. TURNING JACKSET, SLOTTED - LONG (L)

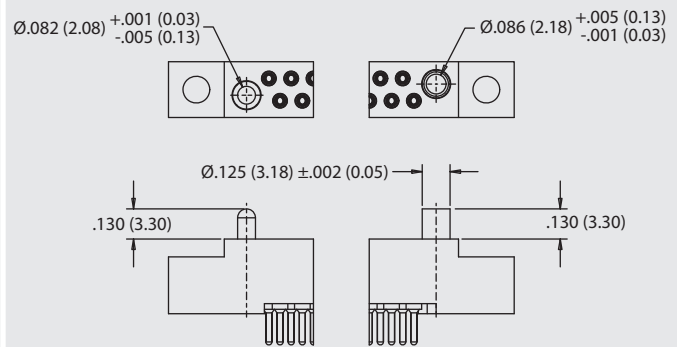


FIGURE 6. GUIDESET FULL ROUND (X)

FIGURE 6. GUIDESET FULL ROUND (X)

Rectangular I/O and Printed Circuit Board Connectors

GTB connector hardware options

STANDARD DENSITY

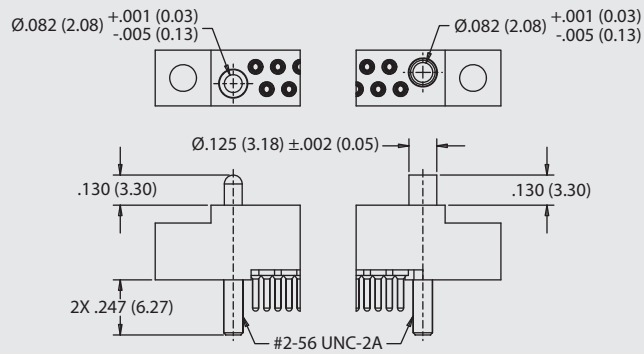
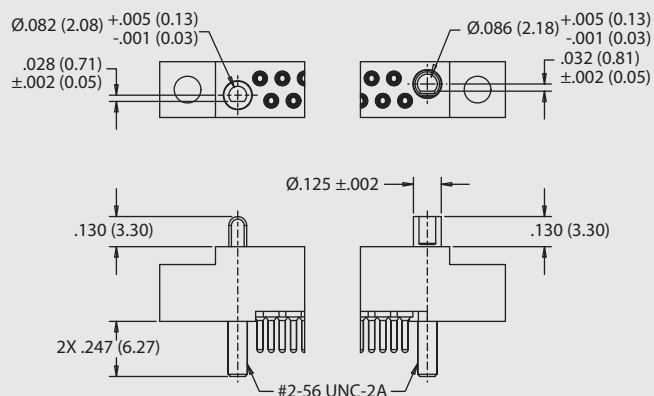
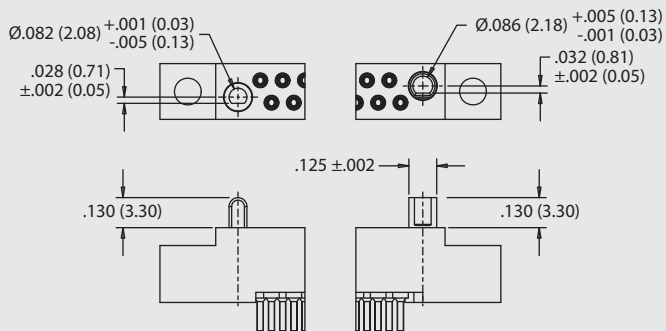


FIGURE 7. EXTENDED GUIDESET FULL ROUND (EX)

FIGURE 8. EXTENDED GUIDESET POLARIZED (EY-1)
(SEE FIGURE 10 FOR POLARIZATIONS)FIGURE 9. GUIDESET, POLARIZED (Y-1)
(SEE FIGURE 10 FOR POLARIZATIONS)

GTB connector hardware options

STANDARD DENSITY

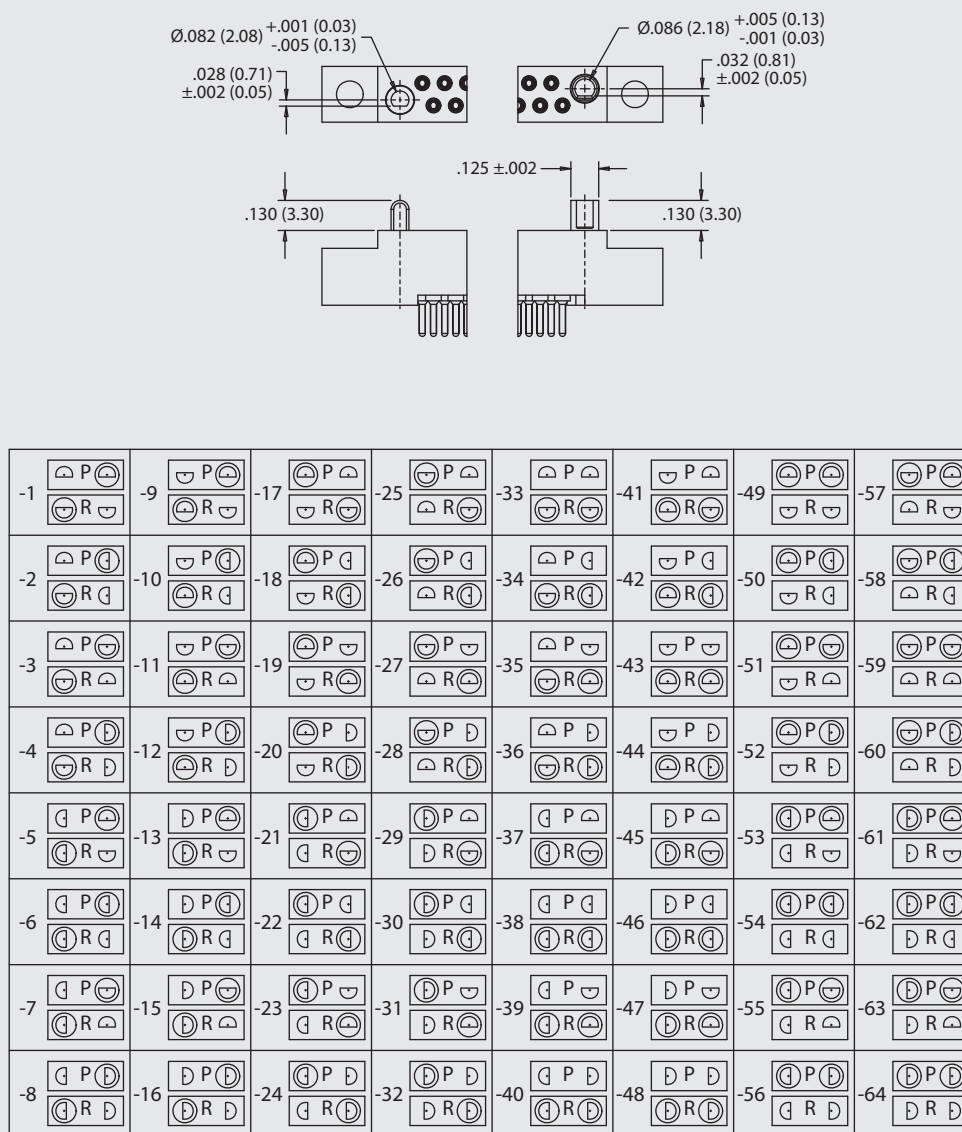


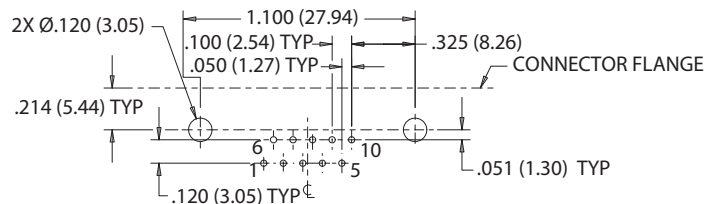
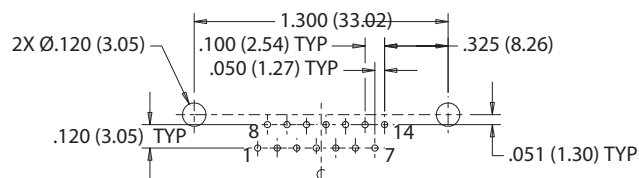
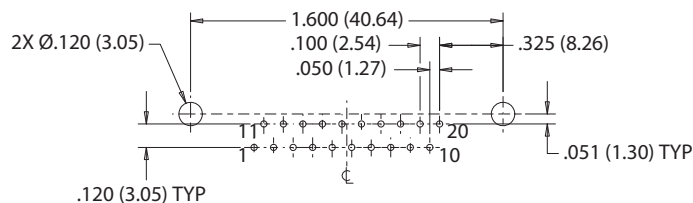
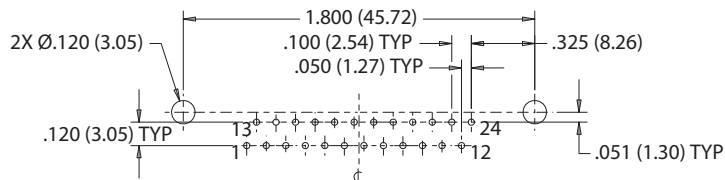
FIGURE 10. POLARIZATION CONFIGURATION CHART

NOTES:

1. When polarized guide pins are removed and reinstalled in another position, apply Loctite 83-CV or equivalent to the threads. Use spanner wrench (600-229) to reconfigure per Figure 10. Guide sets, as installed, shall withstand 7 in*oz backoff torque applied through the mounting nut.
2. All hardware shown is used on GTBA and GTBB connectors
3. Fixed jacksets, guidesets, and polarized guidesets include spanner nuts (not shown) and can be ordered separately from connectors. spanner wrench also available

Rectangular I/O and Printed Circuit Board Connectors

GTBA-RA right angle PCB pin layouts

**GTBA-10PRA****GTBA-14PRA****GTBA-20PRA****GTBA-24PRA****NOTES:**

1. All patterns shown are for connector mounting side of PCB
2. Reference GTBA-RA for connector details

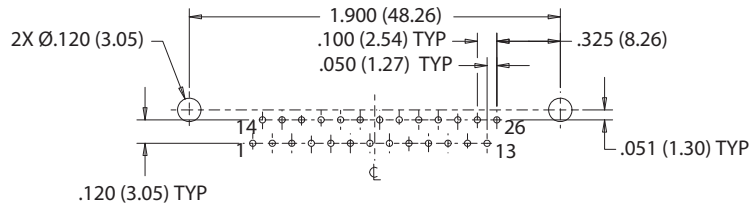
GTB AND GTC SERIES • MIL-DTL-55302 TYPE

Rectangular I/O and Printed Circuit Board Connectors

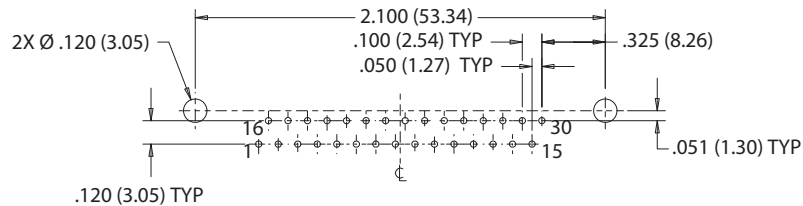


GTBA-RA right angle PCB layouts

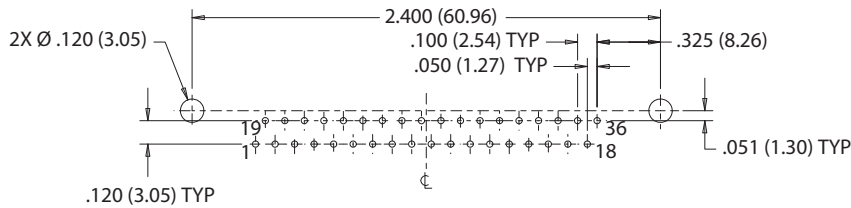
STANDARD DENSITY



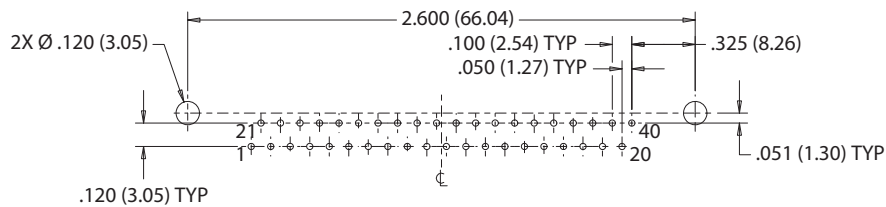
GTBA-26PRA



GTBA-30PRA



GTBA-36PRA



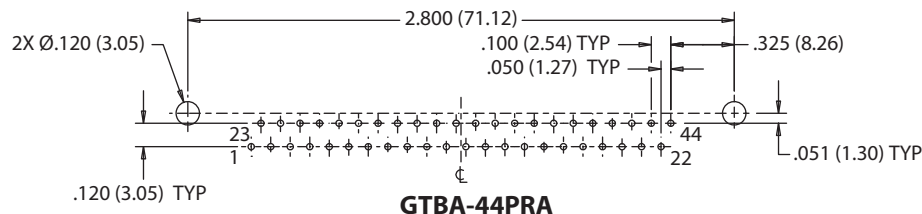
GTBA-40PRA

NOTES:

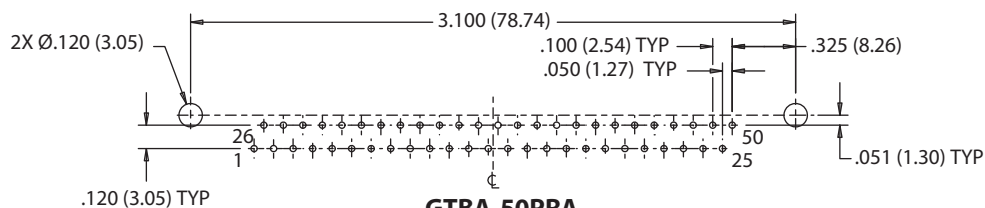
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBA-RA for connector details

Rectangular I/O and Printed Circuit Board Connectors

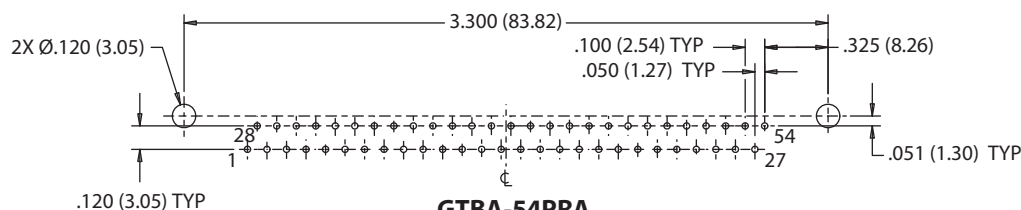
GTBA-RA right angle PCB layouts



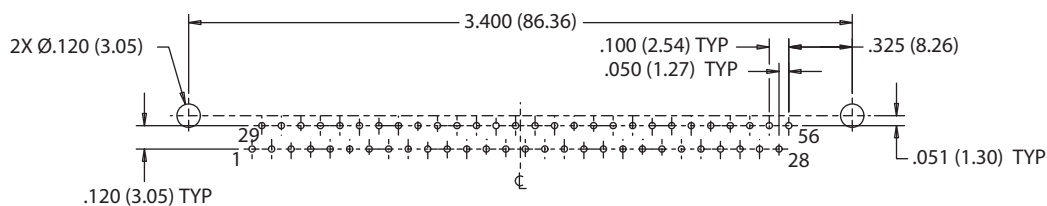
GTBA-44PRA



GTBA-50PRA



GTBA-54PRA



GTBA-56PRA

NOTES:

1. All patterns shown are for connector mounting side of PCB
2. Reference GTBA-RA for connector details

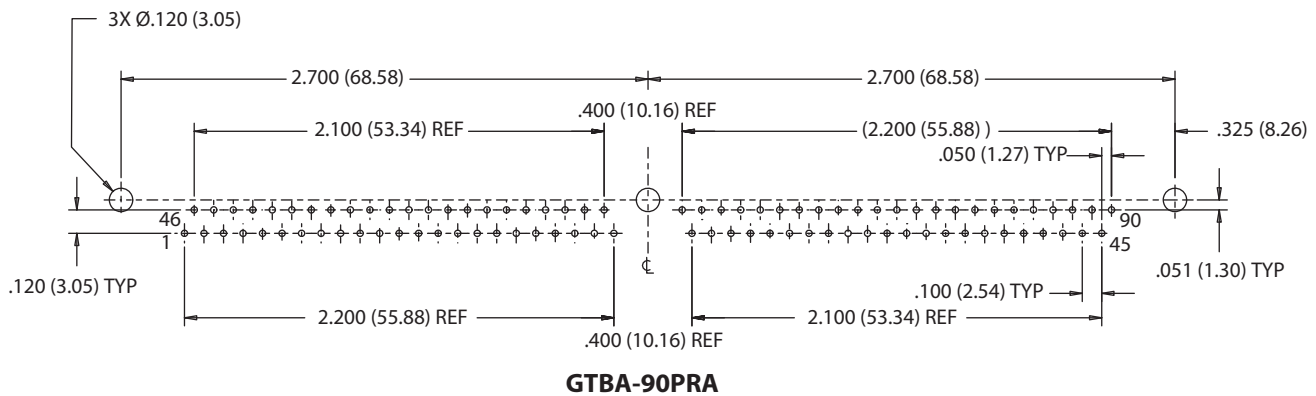
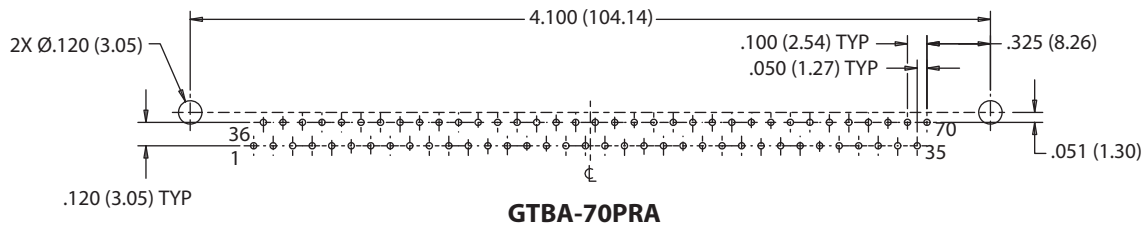
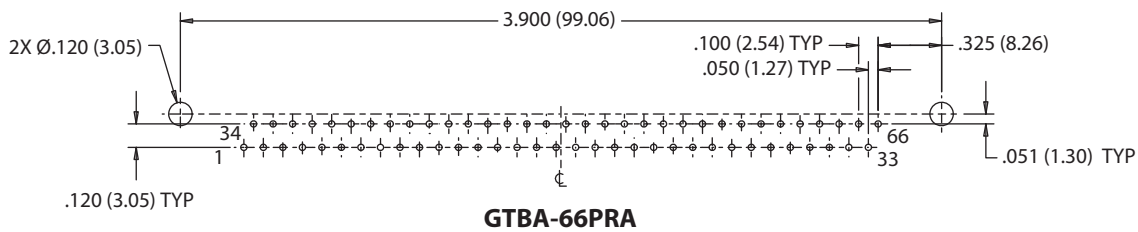
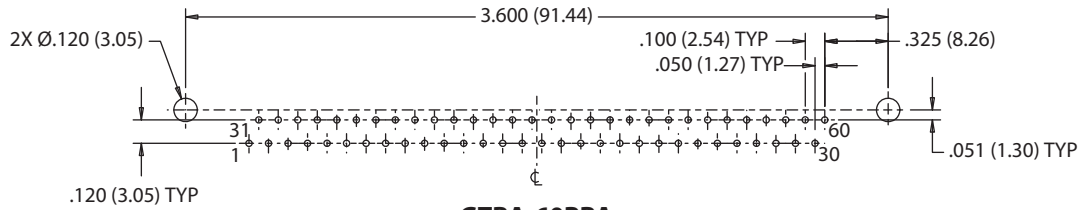
GTB AND GTC SERIES • MIL-DTL-55302 TYPE

Rectangular I/O and Printed Circuit Board Connectors



GTBA-RA right angle PCB layouts

STANDARD DENSITY

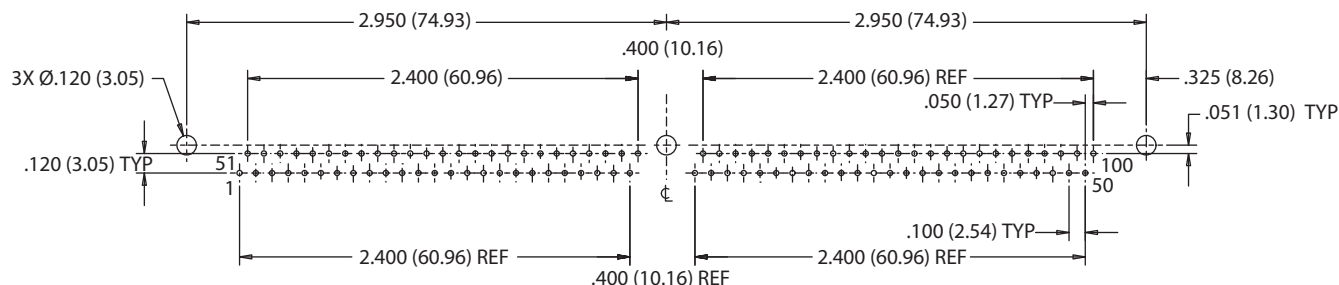


NOTES:

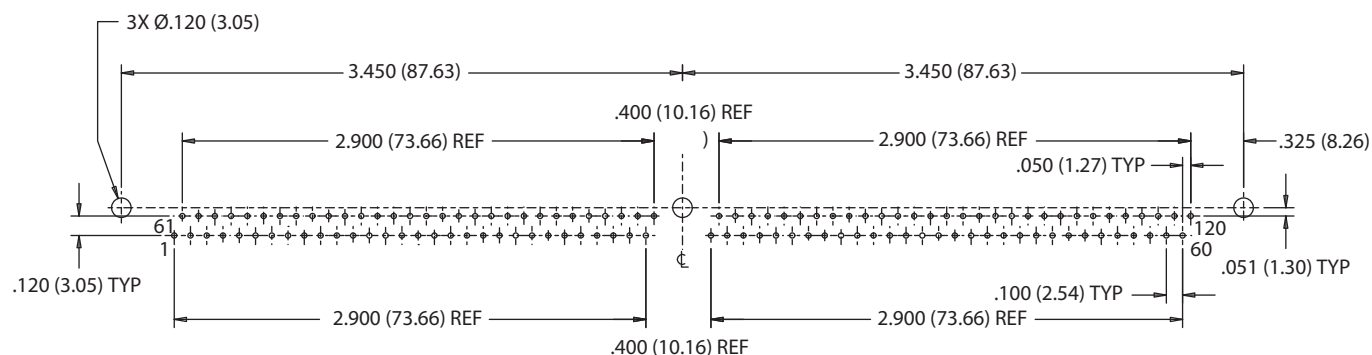
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBA-RA for connector details

Rectangular I/O and Printed Circuit Board Connectors

GTBA-RA right angle PCB layouts



GTBA-100 PRA



GTBA-120 PRA

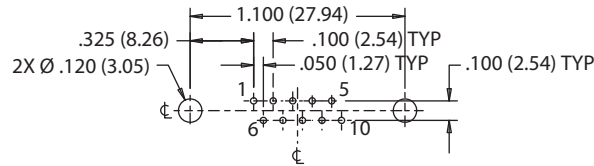
STANDARD DENSITY

NOTES:

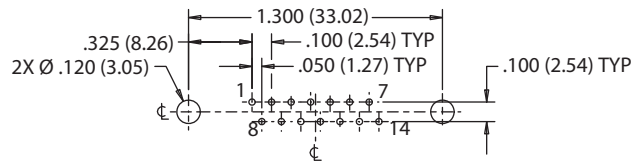
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBA-RA for connector details

GTBA-ST straight and GTBA-SF straight flex PCB socket layouts

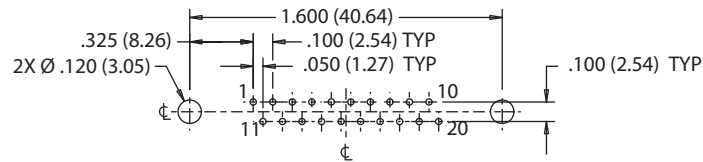
STANDARD DENSITY



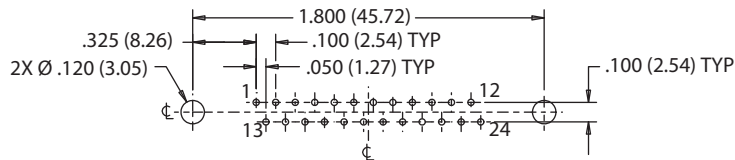
GTBA-10SSF & GTBA-10SST



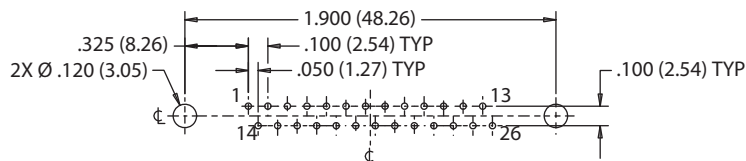
GTBA-14SSF & GTBA-14SST



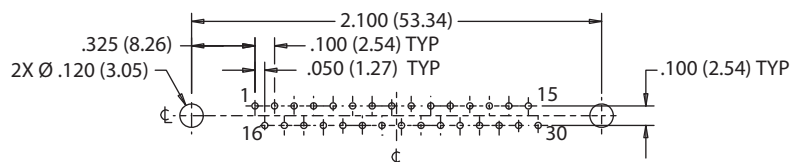
GTBA-20SSF & GTBA-20SST



GTBA-24SSF & GTBA-24SST



GTBA-26SSF & GTBA-26SST



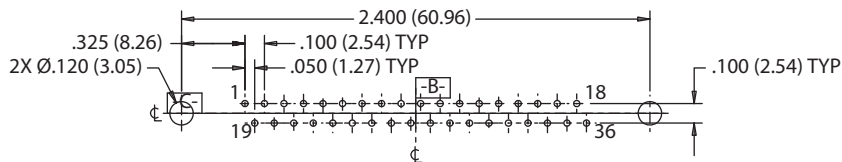
GTBA-30SSF & GTBA-30SST

NOTES:

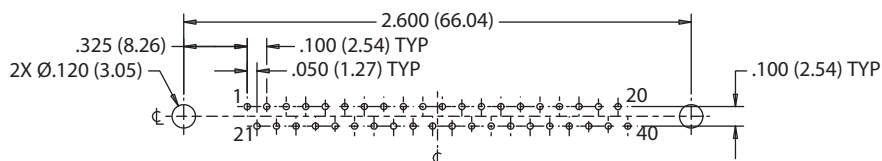
1. All patterns shown are for connector mounting side of PCB.
2. Reference GTBA-SF for connector details

Rectangular I/O and Printed Circuit Board Connectors

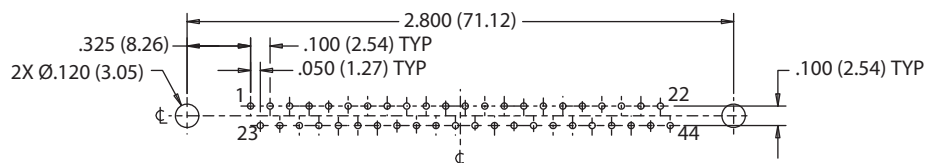
GTBA-ST straight and GTBA-SF straight flex PCB socket layouts



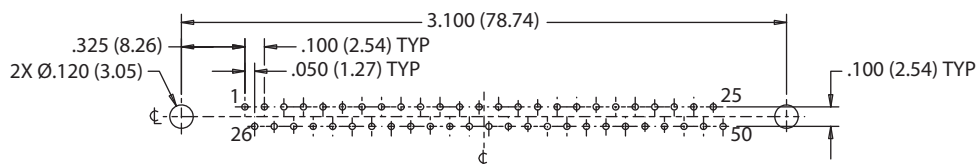
GTBA-36SSF & GTBA-36SST



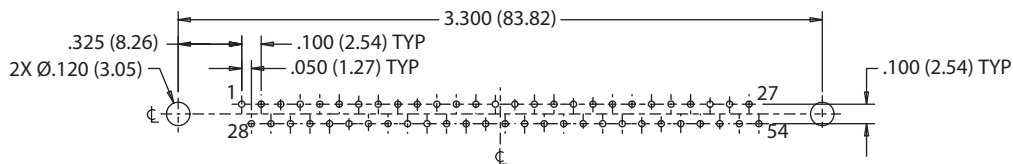
GTBA-40SSF & GTBA-40SST



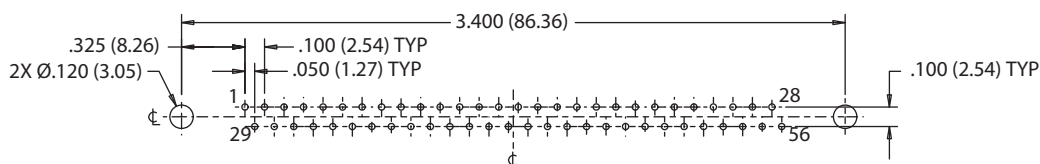
GTBA-44SSF & GTBA-44SST



GTBA-50SSF & GTBA-50SST



GTBA-54SSF & GTBA-54SST



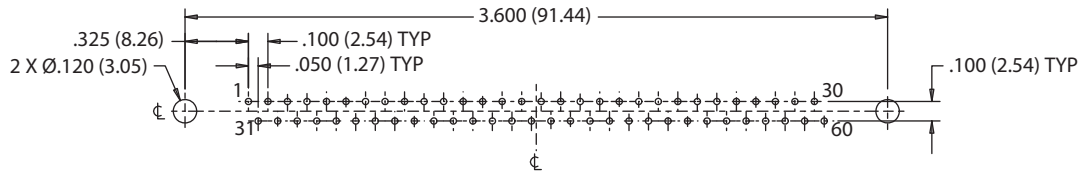
GTBA-56SSF & GTBA-56SST

NOTES:

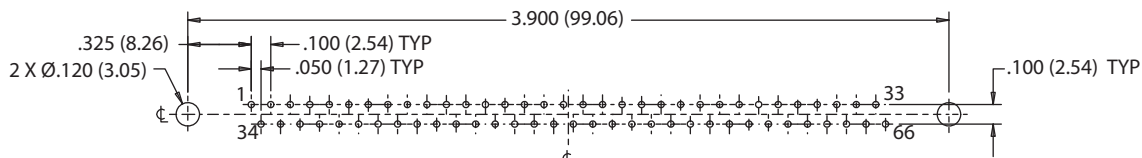
1. All patterns shown are for connector mounting side of PCB.
2. Reference GTBA-SF for connector details

GTBA-ST straight and GTBA-SF straight flex PCB socket layouts

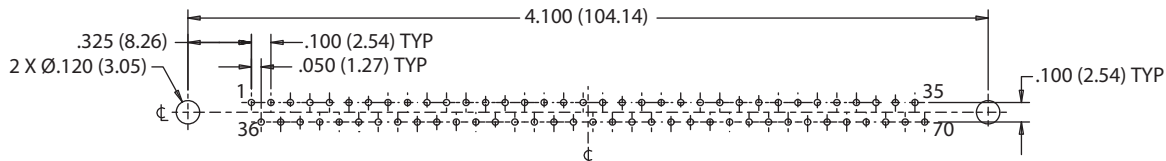
STANDARD DENSITY



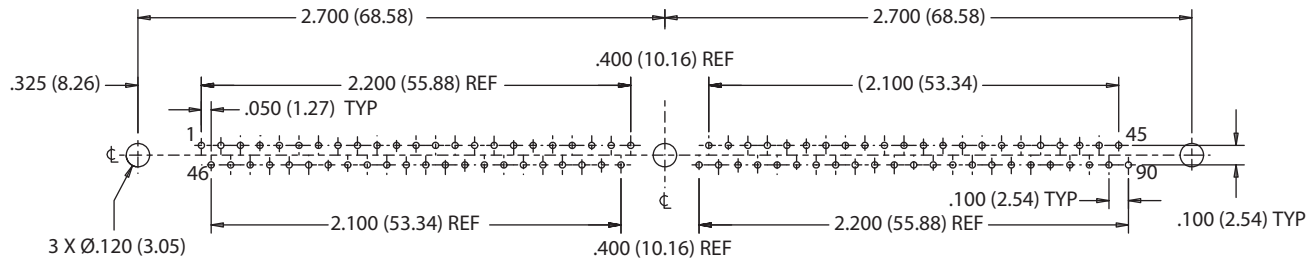
GTBA-60 SSF & GTBA-60 SST



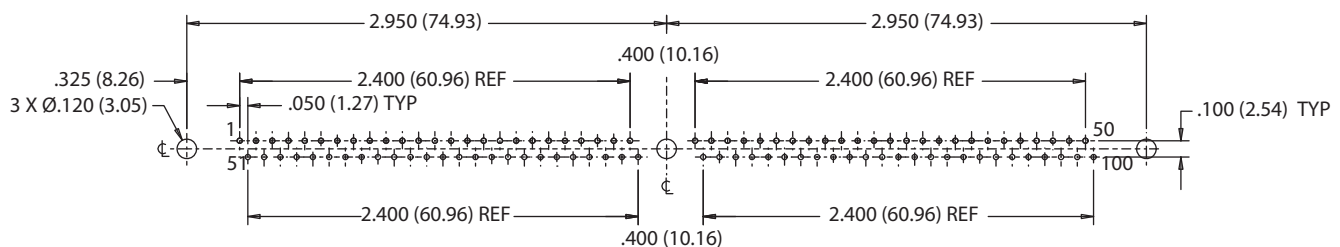
GTBA-66 SSF & GTBA-66 SST



GTBA-70 SSF & GTBA-70 SST



GTBA-90SSF & GTBA-90 SST



GTBA-100 SSF & GTBA-100 SST

NOTES:

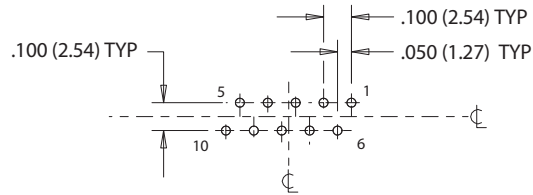
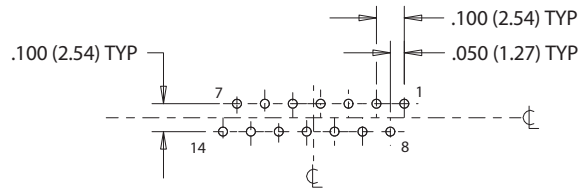
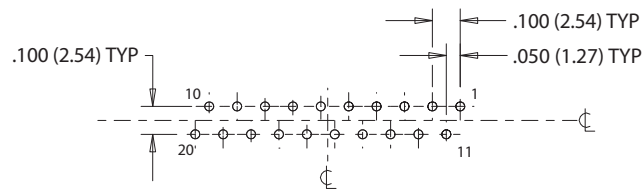
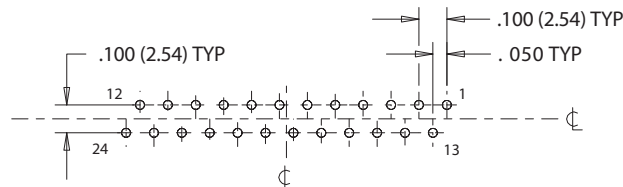
1. All patterns shown are for connector mounting side of PCB.
2. Reference GTBA-SF for connector details

Rectangular I/O and Printed Circuit Board Connectors

STANDARD DENSITY



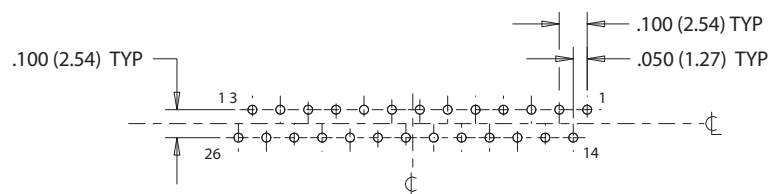
1. All patterns shown are for connector mounting side of PCB.
2. Reference GTBA-SF for connector details

**GTBB-10PSF & GTBB-10PST****GTBB-14PSF & GTBB-14PST****GTBB-20PSF & GTBB-20PST****GTBB-24PSF & GTBB-24PST****NOTES:**

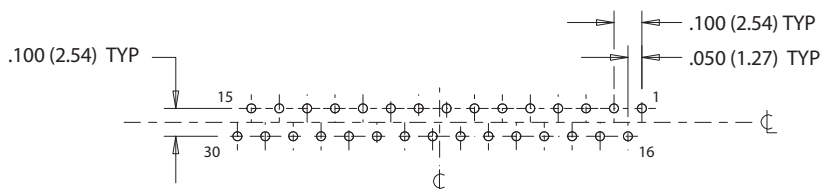
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.

Rectangular I/O and Printed Circuit Board Connectors

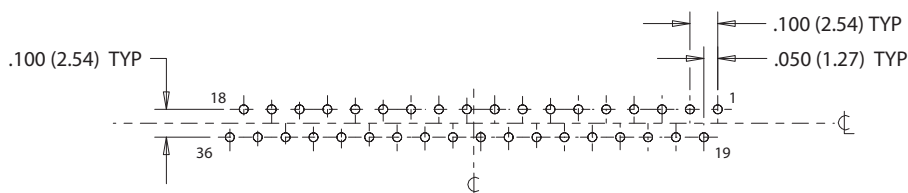
GTBB-ST straight and GTBB-SF straight flex PCB pin layouts



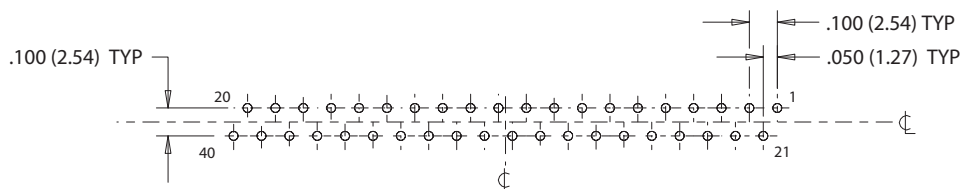
GTBB-26PSF & GTBB-26PST



GTBB-30PSF & GTBB-30PST



GTBB-36PSF & GTBB-36PST



GTBB-40PSF & GTBB-40PST

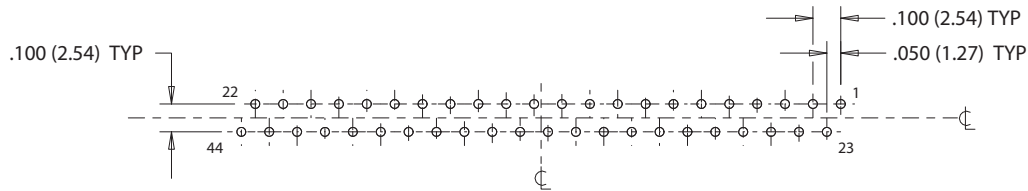
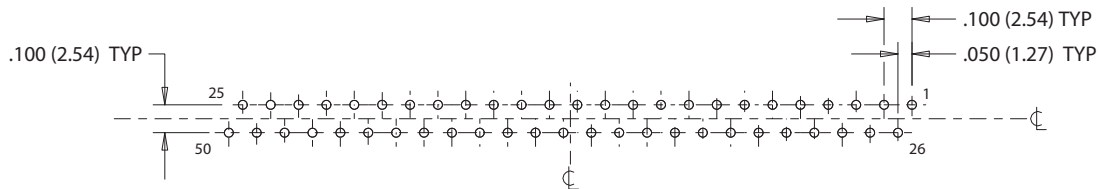
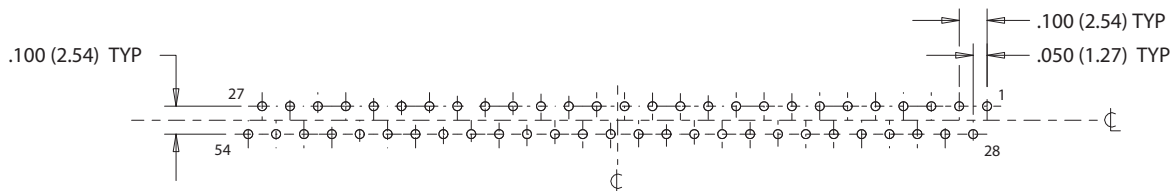
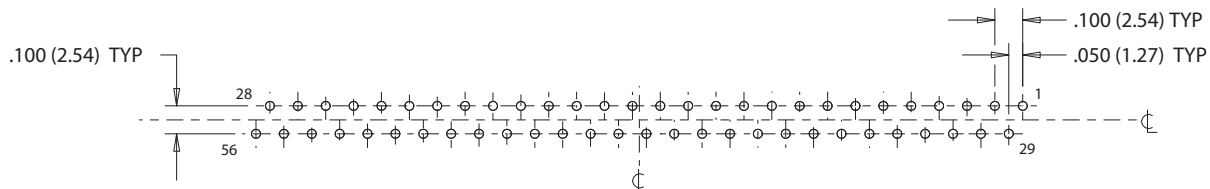
STANDARD DENSITY

NOTES:

1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.

GTBB-ST straight and GTBB-SF straight flex PCB pin layouts

STANDARD DENSITY

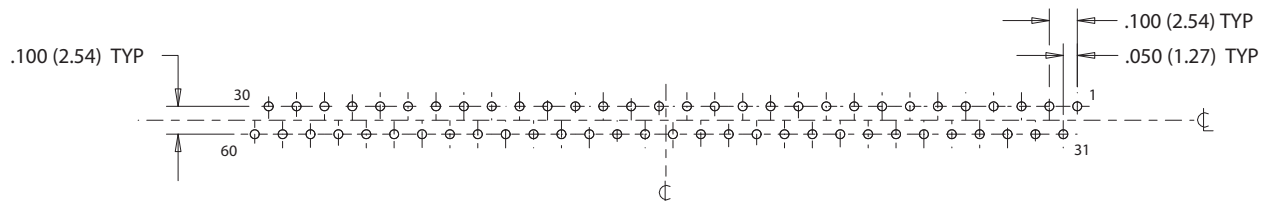
**GTBB-44PSF & GTBB-44PST****GTBB-50PSF & GTBB-50PST****GTBB-54PSF & GTBB-54PST****GTBB-56PSF & GTBB-56PST****NOTES:**

1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.

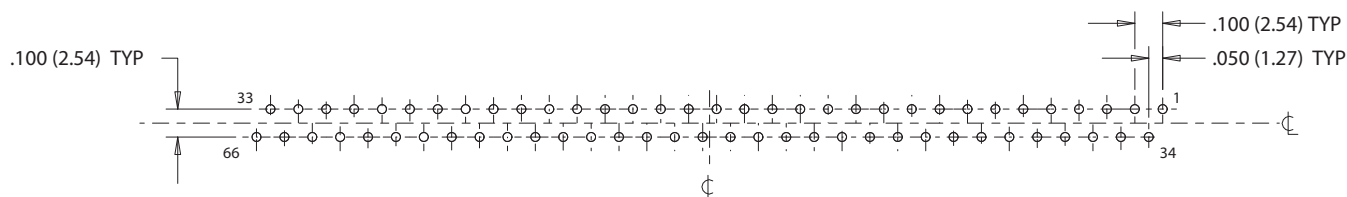
Rectangular I/O and Printed Circuit Board Connectors

GTBB-ST straight and GTBB-SF straight flex PCB pin layouts

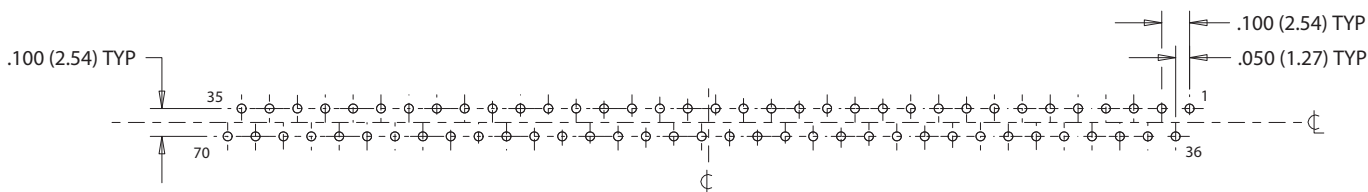
STANDARD DENSITY



GTBB-60PSF & GTBB-60PST



GTBB-66PSF & GTBB-66PST



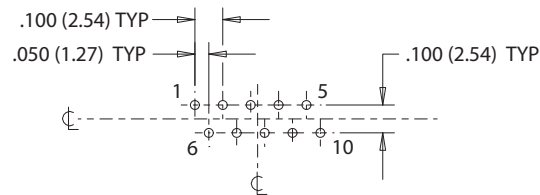
GTBB-70PSF & GTBB-70PST

NOTES:

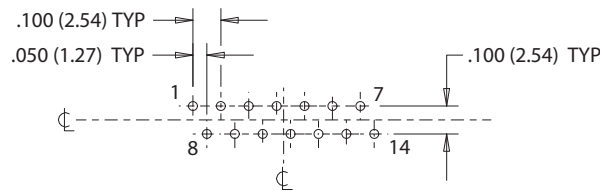
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.

GTBB-ST straight and GTBB-SF straight flex PCB socket layouts

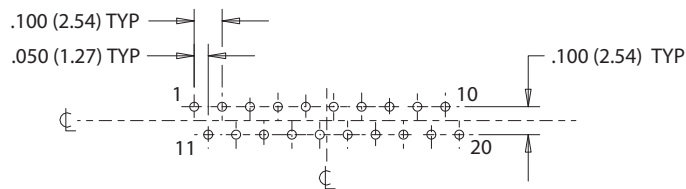
STANDARD DENSITY



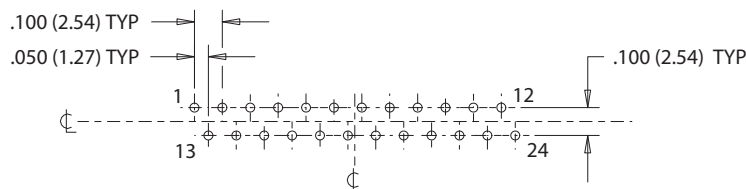
GTBB-10SSF & GTBB-10SST



GTBB-14SSF & GTBB-14SST



GTBB-20SSF & GTBB-20SST



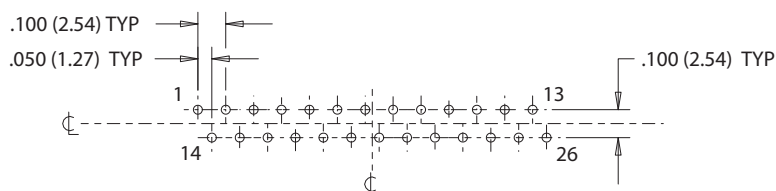
GTBB-24SSF & GTBB-24SST

NOTES:

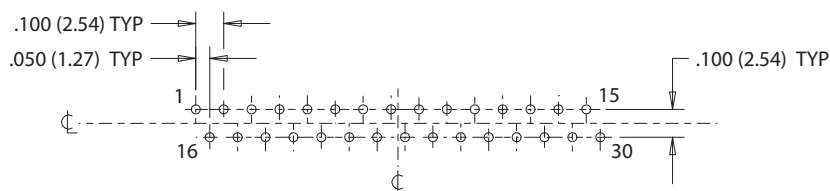
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.

Rectangular I/O and Printed Circuit Board Connectors

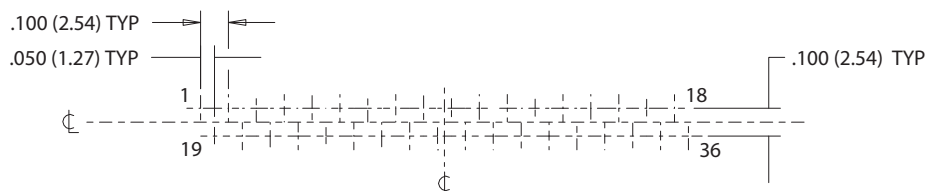
GTBB-ST straight and GTBB-SF straight flex PCB socket layouts



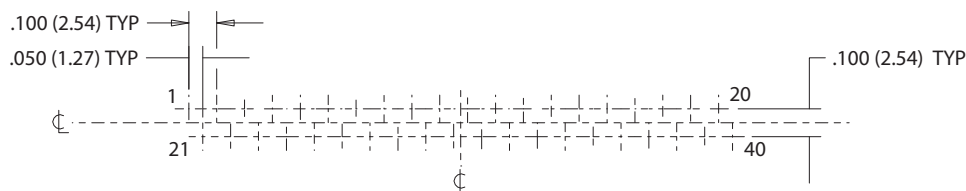
GTBB-26SSF & GTBB-26SST



GTBB-30SSF & GTBB-30SST



GTBB-36SSF & GTBB-36SST



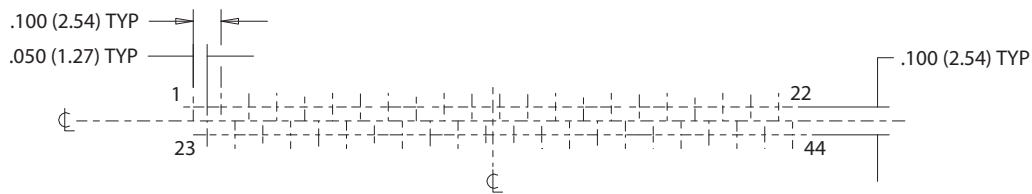
GTBB-40SSF & GTBB-40SST

NOTES:

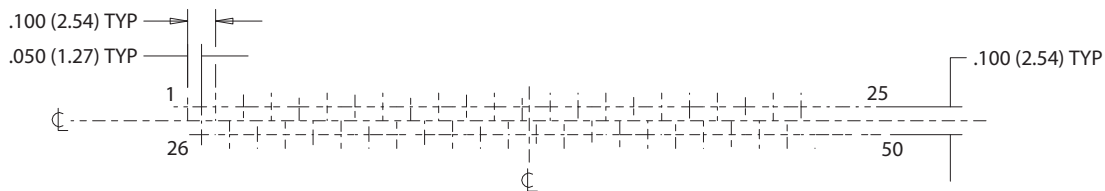
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.

GTBB-ST straight and GTBB-SF straight flex PCB socket layouts

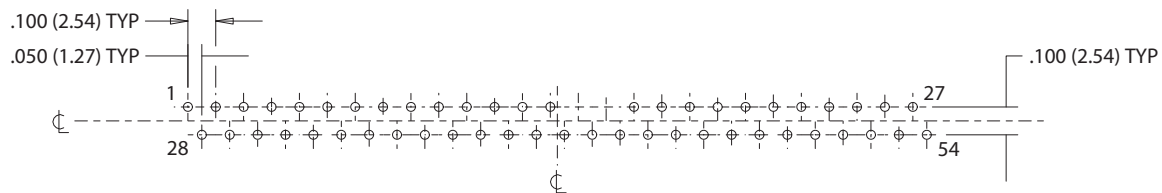
STANDARD DENSITY



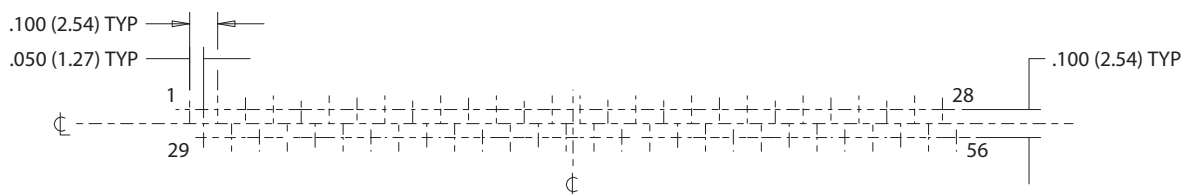
GTBB-44SSF & GTBB-44SST



GTBB-50SSF & GTBB-50SST



GTBB-54SSF & GTBB-54SST



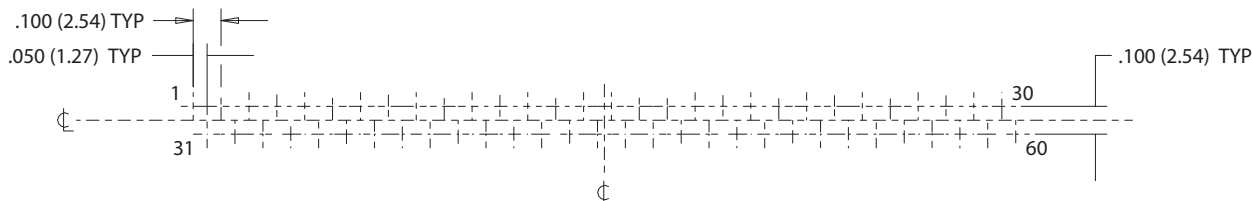
GTBB-56SSF & GTBB-56SST

NOTES:

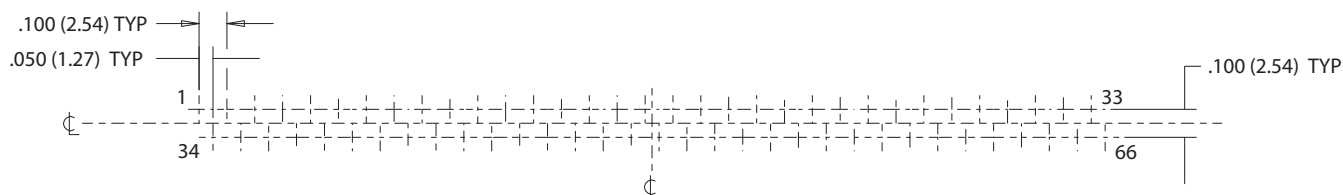
1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.

Rectangular I/O and Printed Circuit Board Connectors

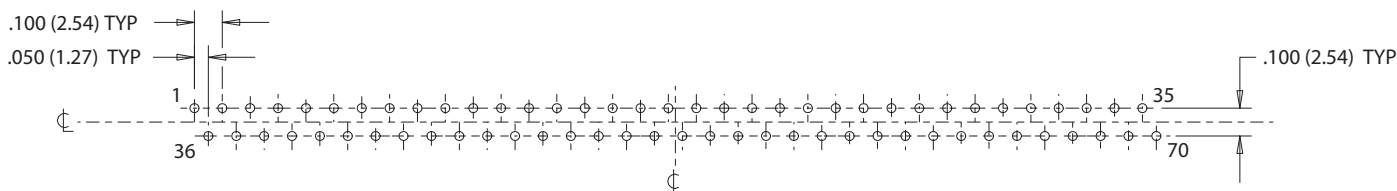
GTBB-ST straight and GTBB-SF straight flex PCB socket layouts



GTBB-60SSF & GTBB-60SST



GTBB-66SSF & GTBB-66SST



GTBB-70SSF & GTBB-70SST

STANDARD DENSITY

NOTES:

1. All patterns shown are for connector mounting side of PCB
2. Reference GTBB-SF & GTBB-ST for connector details.



GTC SERIES • MIL-DTL-55302 TYPE

High-density I/O-to-board and board-mount rectangular connectors for mission-critical aerospace applications

High-density I/O-to-board and board-mount rectangular connectors for mission-critical aerospace applications ensuring interoperability in critical, high-density electronic systems. Connectors feature 0.075 inch center-to-center spacing 2-row designs; comparable to AirBorn Series RM connectors. GTC series connectors are designed for use with printed circuit sub-assemblies using single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. Connector features include pin or socket contacts in straight and right angle PCB, flex PCB, and solder cup terminations. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals and rated to 3.0 amperes. Operates in extreme temperatures from -65° C to +125° C. Ideal for parallel, perpendicular, wire-to-board, and card extender configurations.

FEATURES

- IAW MIL-DTL-55302
- Contacts set on .075" centers
- Size #24 contacts
- Compatible with single-sided, double-sided, and multilayer printed wiring boards
- Straight and Right Angle PCB, Flex PCB, and solder cup terminations
- Solder dipped terminals standard; optional gold plated terminals available

GTB AND GTC SERIES • MIL-DTL-55302 TYPE

Rectangular I/O and Printed Circuit Board Connectors

GTC connector product selection guide

Featuring size #24 contacts and .075" contact spacing

PRODUCT SELECTION GUIDE					
Connector	Description	Page Number	Connector	Description	Page Number
	GTCA-ST - Straight PCB Vertical Mount Connector with Socket Contacts and Mounting Ears	42	GTC PCB Connector Hardware Options		46
			GTCA-RA Right Angle PCB Layouts		49
	GTCA-SF - Straight PCB Flex Connector with Socket Contacts and Mounting Ears	43	GTCA-ST Straight and GTCA-SF Straight Flex PCB Layouts		52
	GTCA-SC - Straight PCB Connector with Solder Cup Terminated Socket Contacts, and Mounting Ears	44			
	GTCA-RA - Right Angle PCB Connector, Pin Contacts and Mounting Ears	45			

55302 PART NUMBER OVERVIEW				
Mounting Ears	Drawing	Description	Contact	Contact Arrangements
Connectors with mounting ears	GTCA-ST	PC Tail	Socket	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
	GTCA-SF	Flex PC Tail	Socket	
	GTCA-SC	Solder Cup	Socket	
	GTCA-RA	Right Angle PC Tail	Pin	

GTCA-ST straight PCB vertical mount connector with socket contacts, mounting ears and .075" spacing

HIGH DENSITY



NOTES

1. Refer to drawing GTC for hardware option details on page 46
2. See GTC straight flex socket layouts on page 52
3. Performance specifications:
 - Current Rating: 3 AMP
 - DWV: 750 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 7 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 2000 Mating Cycles
4. Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS) or liquid crystal polymer (LCP)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

DIMENSIONS

Contact Layout	A	B	C	D	E
-10	0.798 (20.27)	0.618 (15.70)	0.300 (7.62)	0.968 (24.59)	1.138 (28.91)
-20	1.173 (29.79)	0.993 (25.22)	0.675 (17.15)	1.343 (34.11)	1.513 (38.43)
-30	1.548 (39.32)	1.368 (34.75)	1.050 (26.67)	1.718 (43.64)	1.888 (47.96)
-40	1.923 (48.84)	1.743 (44.27)	1.425 (36.20)	2.093 (53.16)	2.263 (57.48)
-50	2.298 (58.37)	2.118 (53.80)	1.800 (45.72)	2.468 (62.69)	2.638 (67.01)
-60	2.673 (67.89)	2.493 (63.32)	2.175 (55.25)	2.843 (72.21)	3.013 (76.53)
-70	3.048 (77.42)	2.868 (72.85)	2.550 (64.77)	3.218 (81.74)	3.388 (86.06)
-80	3.423 (86.94)	3.243 (82.37)	2.925 (74.30)	3.593 (91.26)	3.763 (95.58)
-90	3.798 (96.47)	3.618 (91.90)	3.300 (83.82)	3.968 (100.79)	4.138 (105.11)
-100	4.173 (105.99)	3.993 (101.42)	3.675 (93.35)	4.343 (110.31)	4.513 (114.63)

GTCA-ST Series rectangular size #24 PCB receptacles are designed for use with printed circuit sub-assemblies requiring single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. PCB connector features PC tail termination with socket contacts on .075" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

HOW TO ORDER

Sample Part Number	GTCA	-90	S	ST	-109	-X	-513
Series	GTCA = PCB connector with mounting ears, .075" spacing						
Contact Layout	-10, -20, -30, -40, -50, -60, -70, -80, -90, -100						
Contact Type	S = socket						
Termination Type	ST = PCB vertical; see termination detail below						
Terminal Length	Length in inches ±.010 -109, -140, -172						
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -N = turning jackset, hex head, long -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long						
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513						

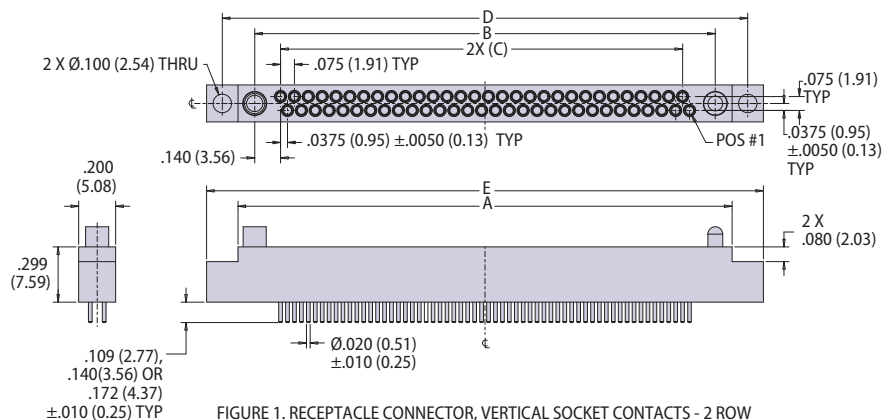
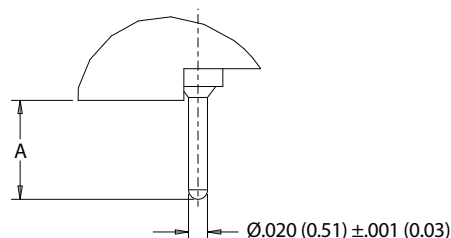


FIGURE 1. RECEPTACLE CONNECTOR, VERTICAL SOCKET CONTACTS - 2 ROW

PCB TERMINATION DETAIL (ST)



DIMENSION A

0.109 (2.77)
0.140 (3.56)
0.172 (4.37)

Rectangular I/O and Printed Circuit Board Connectors

GTCA-SF straight PCB flex vertical mount connector with socket contacts, mounting ears and .075" spacing



NOTES

- See GTC for hardware option details on page 46
- See GTC straight flex socket layouts on page 52
- Performance specifications:
 - Current Rating: 3 AMP
 - DWV: 750 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 7 milliohms
 - Operating temperature: -65° C. to +125°C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 2000 Mating Cycles
- Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS) or liquid crystal polymer (LCP)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

DIMENSIONS

Contact Layout	A	B	C	D	E
10	0.798 (20.27)	0.618 (15.70)	0.300 (7.62)	0.968 (24.59)	1.138 (28.91)
20	1.173 (29.79)	0.993 (25.22)	0.675 (17.15)	1.343 (34.11)	1.513 (38.43)
30	1.548 (39.32)	1.368 (34.75)	1.050 (26.67)	1.718 (43.64)	1.888 (47.96)
40	1.923 (48.84)	1.743 (44.27)	1.425 (36.20)	2.093 (53.16)	2.263 (57.48)
50	2.298 (58.37)	2.118 (53.80)	1.800 (45.72)	2.468 (62.69)	2.638 (67.01)
60	2.673 (67.89)	2.493 (63.32)	2.175 (55.25)	2.843 (72.21)	3.013 (76.53)
70	3.048 (77.42)	2.868 (72.85)	2.550 (64.77)	3.218 (81.74)	3.388 (86.06)
80	3.423 (86.94)	3.243 (82.37)	2.925 (74.30)	3.593 (91.26)	3.763 (95.58)
90	3.798 (96.47)	3.618 (91.90)	3.300 (83.82)	3.968 (100.79)	4.138 (105.11)
100	4.173 (105.99)	3.993 (101.42)	3.675 (93.35)	4.343 (110.31)	4.513 (114.63)

GTCA-SF Series rectangular size #24 PCB vertical mount receptacles are designed for use with flexible circuits requiring single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. PCB connector features PC tail termination with socket contacts on .075" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

HOW TO ORDER

Sample Part Number	GTCA	-60	S	SF	-.093	-X	-513
Series	GTCA = PCB flex connector with mounting ears, .075" spacing						
Contact Layout	-10, -20, -30, -40, -50, -60, -70, -80, -90, -100						
Contact Type	S = socket						
Termination Type	SF = flex vertical; see termination detail below						
Terminal Length	Length in inches ±.010 -.093						
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -N = turning jackset, hex head, long -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long						
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513						

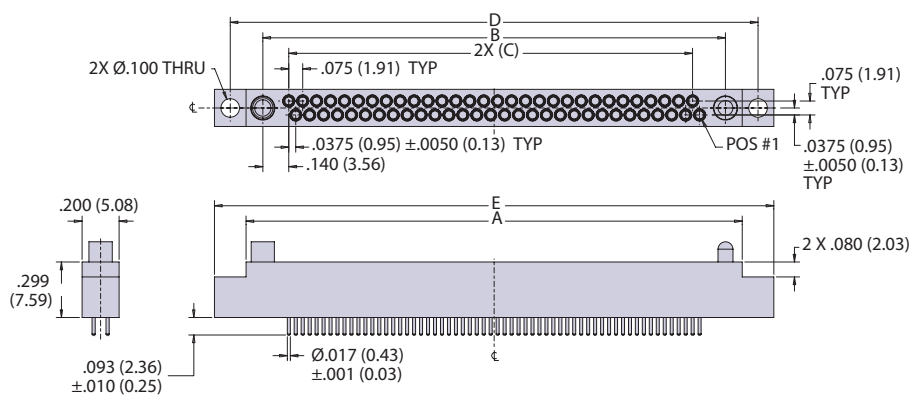
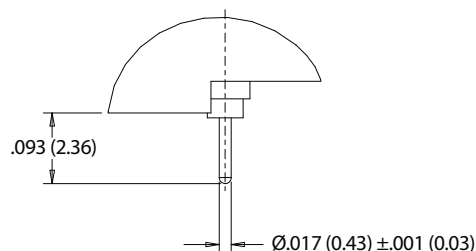


FIGURE 1. RECEPTACLE CONNECTOR, VERTICAL SOCKET CONTACTS - 2 ROW

PCB FLEX TERMINATION DETAIL (SF)



GTCA-SC straight PCB connector with solder cup terminated socket contacts, mounting ears and .075" spacing

HIGH DENSITY



NOTES

- Refer to drawing GTC for hardware option details on page 46
- Performance specifications:
 - Current Rating: 3 AMP
 - DWV: 750 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 7 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max): (4 Ounces) X (# of Contacts)
 - Durability: 2000 Mating Cycles
- Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS) or liquid crystal polymer (LCP)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

DIMENSIONS

Contact Layout	A	B	C	D	E
-10	0.798 (20.27)	0.618 (15.70)	0.300 (7.62)	0.968 (24.59)	1.138 (28.91)
-20	1.173 (29.79)	0.993 (25.22)	0.675 (17.15)	1.343 (34.11)	1.513 (38.43)
-30	1.548 (39.32)	1.368 (34.75)	1.050 (26.67)	1.718 (43.64)	1.888 (47.96)
-40	1.923 (48.84)	1.743 (44.27)	1.425 (36.20)	2.093 (53.16)	2.263 (57.48)
-50	2.298 (58.37)	2.118 (53.80)	1.800 (45.72)	2.468 (62.69)	2.638 (67.01)
-60	2.673 (67.89)	2.493 (63.32)	2.175 (55.25)	2.843 (72.21)	3.013 (76.53)
-70	3.048 (77.42)	2.868 (72.85)	2.550 (64.77)	3.218 (81.74)	3.388 (86.06)
-80	3.423 (86.94)	3.243 (82.37)	2.925 (74.30)	3.593 (91.26)	3.763 (95.58)
-90	3.798 (96.47)	3.618 (91.90)	3.300 (83.82)	3.968 (100.79)	4.138 (105.11)
-100	4.173 (105.99)	3.993 (101.42)	3.675 (93.35)	4.343 (110.31)	4.513 (114.63)

GTCA-SC Series rectangular size #24 PCB receptacles are designed for use with printed circuit sub-assemblies requiring single-sided, double-sided, and multilayer printed wiring in accordance with MIL-DTL-55302. Connector features solder cup termination with socket contacts on .075" centers. Terminals are solder-dipped in 60/40 tin lead and available with optional gold-plated terminals. Parts are manufactured from non-magnetic materials.

HOW TO ORDER

Sample Part Number	GTCA	-60	S	SC	-X	-513
Series	GTCA = PCB connector with mounting ears, .075" spacing					
Contact Layout	-10, -20, -30, -40, -50, -60, -70, -80, -90, -100					
Contact Type	S = socket					
Termination Type	SC = solder cup; see termination detail below					
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jackset -S = turning jackset, slotted head -N = turning jackset, hex head, long -M = turning jackset, slotted head, medium long -L = turning jackset, slotted head, long					
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513					

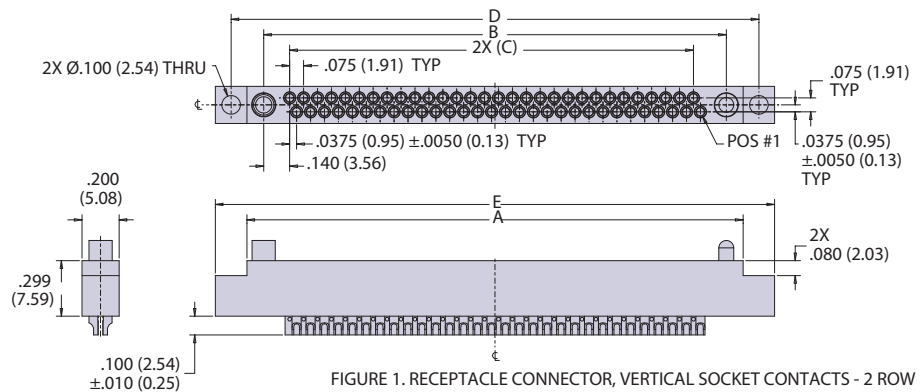
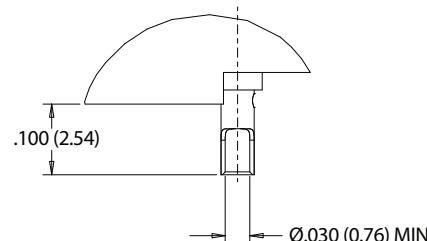


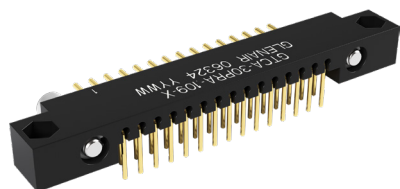
FIGURE 1. RECEPTACLE CONNECTOR, VERTICAL SOCKET CONTACTS - 2 ROW

SOLDER CUP TERMINATION DETAIL (SC)



Rectangular I/O and Printed Circuit Board Connectors

HIGH DENSITY



1. Refer to drawing GTC for hardware option details on page 46
2. Refer to drawing GTC for PCB footprints on page 49
3. Performance specifications:
 - Current Rating: 3 AMP
 - DWV: 750 VAC sea level
 - Insulation resistance: 5000 megohms minimum @ 500 VDC
 - Contact resistance: 7 milliohms
 - Operating temperature: -65° C. to +125° C.
 - Mating force (Max):
(4 Ounces) X (# of Contacts)
 - Durability: 2000 Mating Cycles
4. Materials and Finishes
 - Insulator: polyphenylene sulfide (PPS) or liquid crystal polymer (LCP)
 - Contacts: copper alloy, gold over nickel plating
 - Hardware: copper alloy, nickel plated and/or 300 series stainless steel, passivated

Dimensions					
Contact Layout	A	B	C	D	E
-10	0.798 (20.27)	0.618 (15.70)	0.300 (7.62)	0.968 (24.59)	1.138 (28.91)
-20	1.173 (29.79)	0.993 (25.32)	0.675 (17.15)	1.343 (34.11)	1.513 (38.43)
-30	1.548 (39.32)	1.368 (34.75)	1.050 (26.67)	1.718 (43.64)	1.888 (47.96)
-40	1.923 (48.84)	1.743 (44.27)	1.425 (36.20)	2.093 (53.16)	2.263 (57.48)
-50	2.298 (58.37)	2.118 (53.80)	1.800 (45.72)	2.468 (62.69)	2.638 (67.01)
-60	2.673 (67.89)	2.493 (63.32)	2.175 (55.25)	2.843 (72.21)	3.013 (76.53)
-70	3.048 (77.42)	2.868 (72.85)	2.550 (64.77)	3.218 (81.74)	3.388 (86.06)
-80	3.423 (86.94)	3.243 (82.37)	2.925 (74.30)	3.593 (91.26)	3.763 (95.58)
-90-	3.798 (96.47)	3.618 (91.90)	3.300 (83.82)	3.968 (100.79)	4.138 (105.11)
100	4.173 (105.99)	3.993 (101.42)	3.675 (93.35)	4.343 (110.31)	4.513 (114.63)

Sample Part Number		GTCA	-90	P	RA	-.109	-X	-513
Series	GTCA = PCB connector with mounting ears, .075" spacing							
Contact Layout	-10, -20, -30, -40, -50, -60, -70, -80, -90, -100							
Contact Type	P = PIN							
Termination Type	RA = PCB right angle; see termination detail below							
Terminal Length	Length in inches $\pm$.010 -.109, -.140, -.172							
Hardware Option See note 1	Omit for none -X = guideset, full round -Y-# = guideset, polarized -F = fixed jacket -S = turning jacketset, slotted head -N = turning jacketset, hex head, long -M = turning jacketset, slotted head, medium long -L = turning jacketset, slotted head, long							
Gold-Plated Terminal Mod Code	Terminals are solder-dipped in 60/40 tin-lead solder. For gold-plated terminals, add code -513							

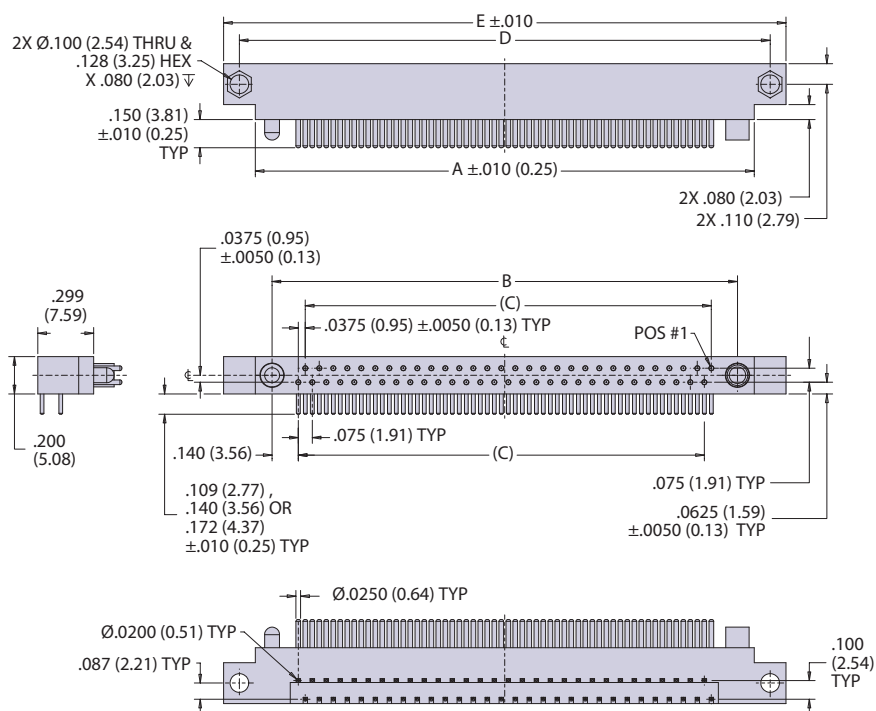


FIGURE 1. PLUG CONNECTOR, RIGHT ANGLE PIN CONTACTS - 2 ROW

GTC connector hardware options

HIGH DENSITY

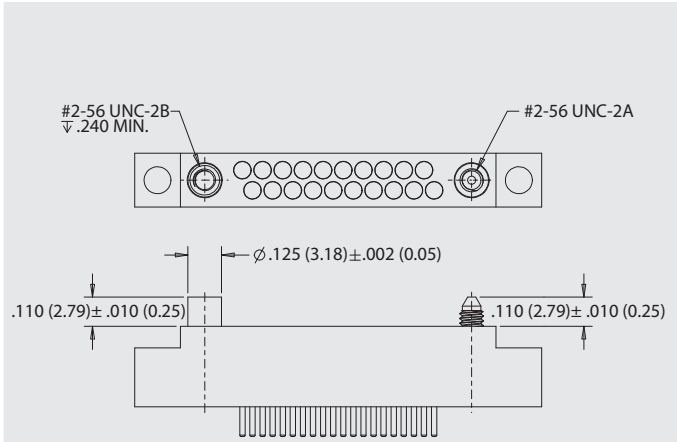


FIGURE 1. FIXED JACKSET (F)

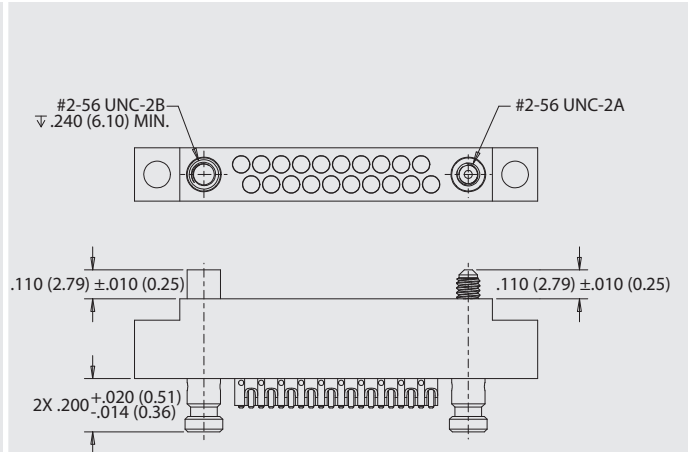


FIGURE 2. TURNING JACKSET, HEX SHORT (S)

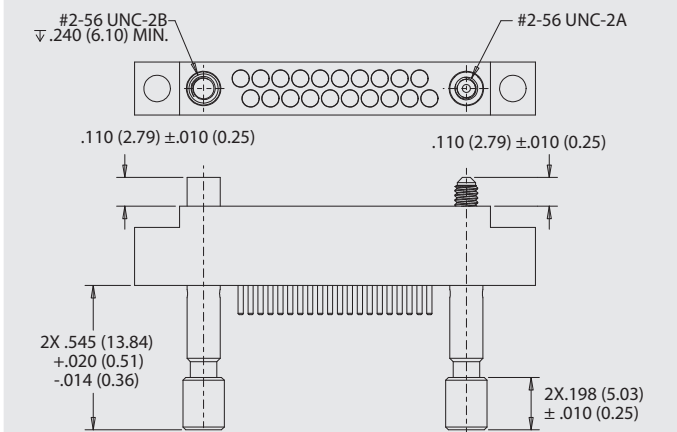


FIGURE 3. TURNING JACKSET, HEX - LONG (N)

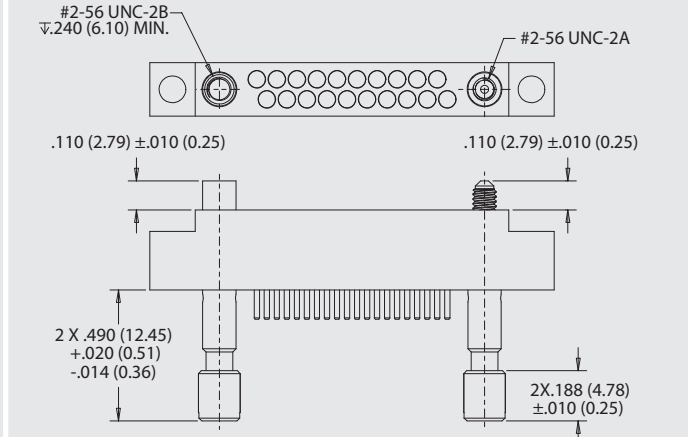


FIGURE 4. TURNING JACKSET, SLOTTED - MED LONG (M)

GTB AND GTC SERIES • MIL-DTL-55302 TYPE Rectangular I/O and Printed Circuit Board Connectors

GTC connector hardware options

HIGH DENSITY

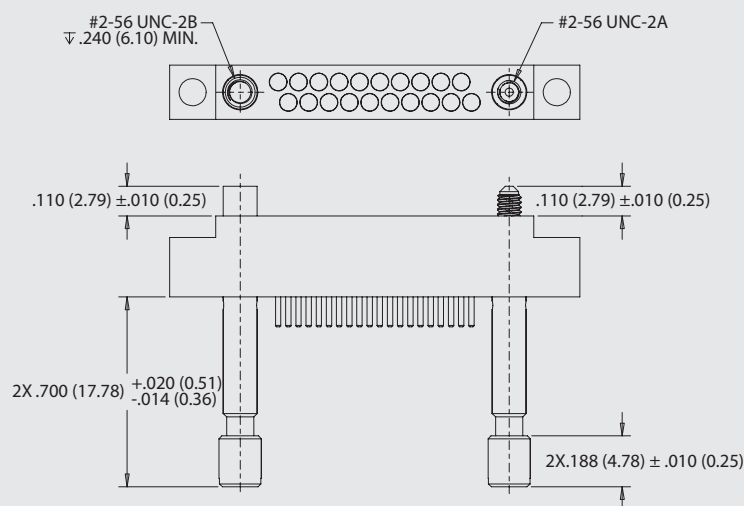


FIGURE 5. TURNING JACKSET, SLOTTED - LONG (L)

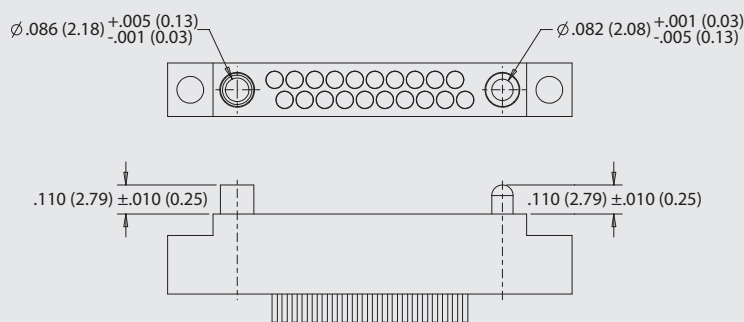


FIGURE 6. GUIDESET FULL ROUND (X)

GTB AND GTC SERIES • MIL-DTL-55302 TYPE Rectangular I/O and Printed Circuit Board Connectors



GTC connector hardware options

HIGH DENSITY

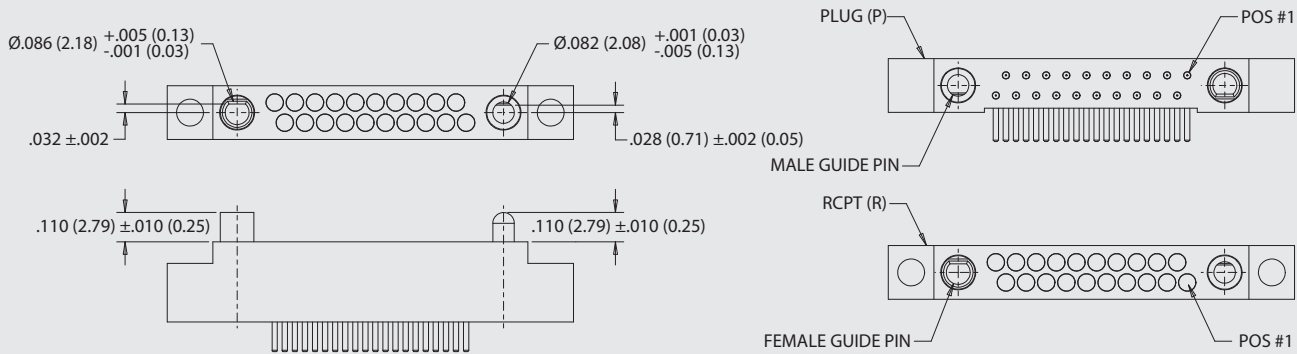


FIGURE 9. GUIDESET, POLARIZED (Y-1)

-1	-9	-17	-25	-33	-41	-49	-57
-2	-10	-18	-26	-34	-42	-50	-58
-3	-11	-19	-27	-35	-43	-51	-59
-4	-12	-20	-28	-36	-44	-52	-60
-5	-13	-21	-29	-37	-45	-53	-61
-6	-14	-22	-30	-38	-46	-54	-62
-7	-15	-23	-31	-39	-47	-55	-63
-8	-16	-24	-32	-40	-48	-56	-64

Notes:

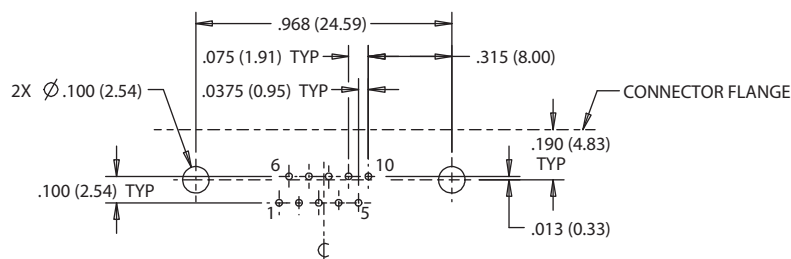
- When polarized guide pins are removed and reinstalled in another position, apply Loctite 83-CV or equivalent to the threads. Use spanner wrench (600-229) to reconfigure per Figure 10. Guide sets, as installed, shall withstand 7 in*oz backoff torque applied through the mounting nut.

FIGURE 10. POLARIZATION CONFIGURATION CHART

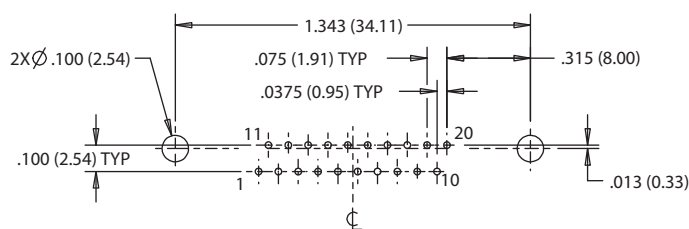
Rectangular I/O and Printed Circuit Board Connectors

GTCA-RA right angle PCB pin layouts

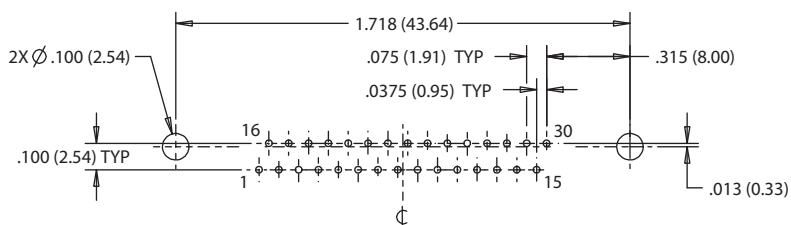
HIGH DENSITY



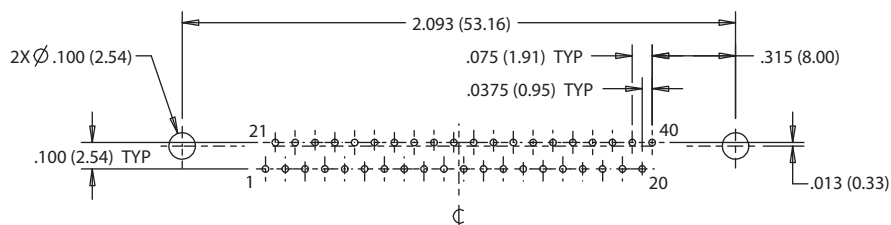
GTCA-10PRA



GTCA-20PRA



GTCA-30PRA



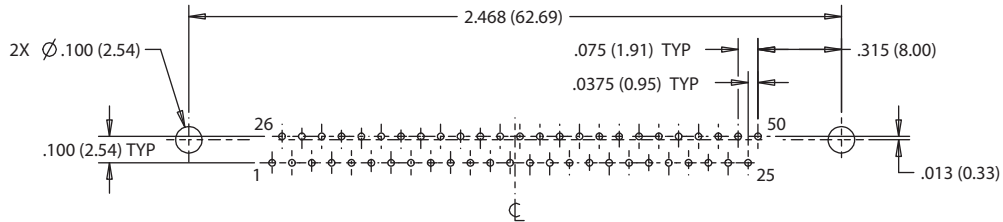
GTCA-40PRA

NOTES:

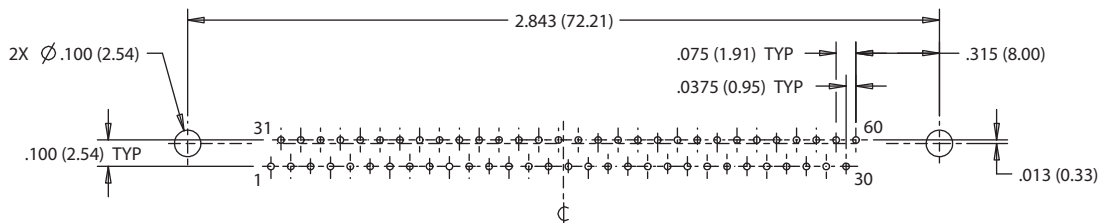
1. All patterns shown are for connector mounting side of PCB.
2. Reference GTCA-RA for connector details

GTCA-RA right angle PCB pin layouts

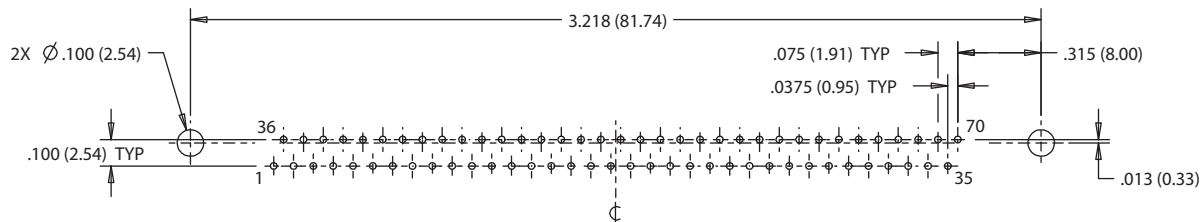
HIGH DENSITY



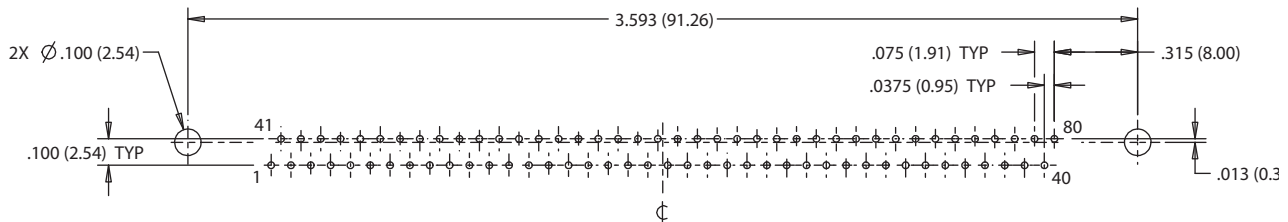
GTCA-50PRA



GTCA-60PRA



GTCA-70PRA



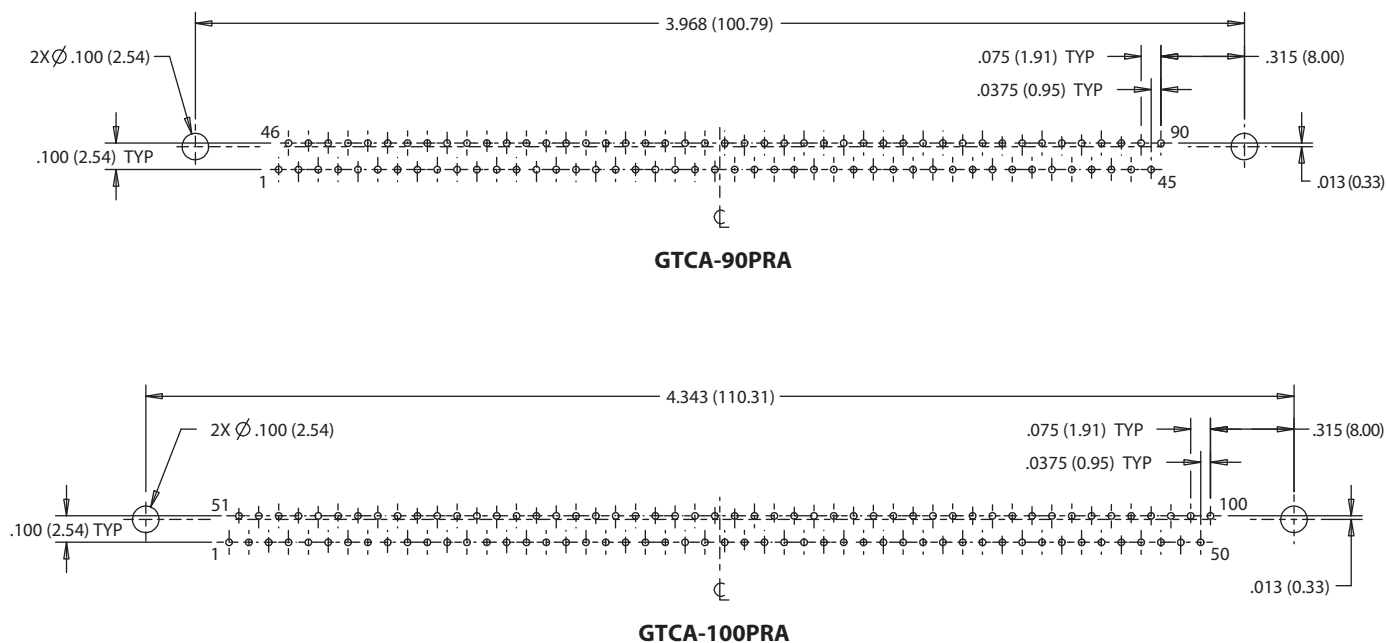
GTCA-80PRA

NOTES:

1. All patterns shown are for connector mounting side of PCB.
2. Reference GTCA-RA for connector details

Rectangular I/O and Printed Circuit Board Connectors

GTCA-RA right angle PCB pin layouts



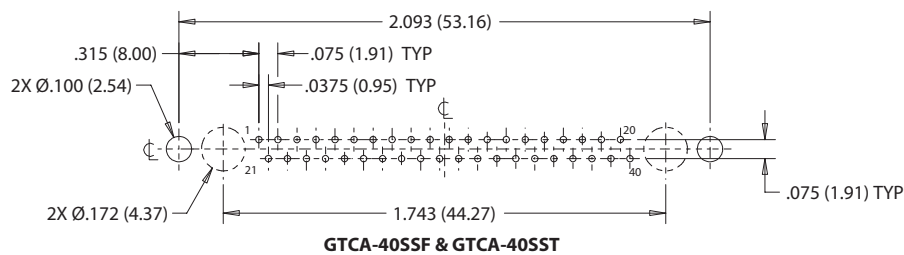
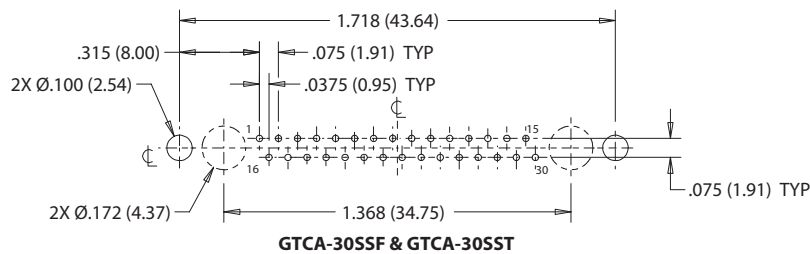
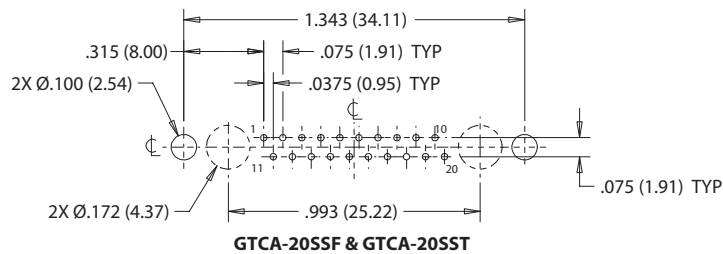
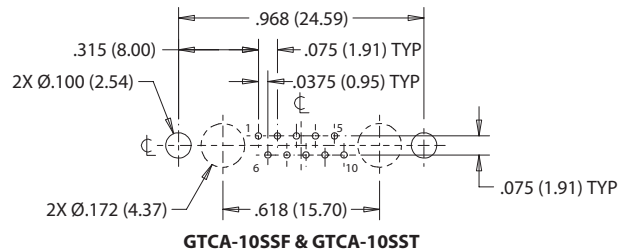
HIGH DENSITY

NOTES:

1. All patterns shown are for connector mounting side of PCB.
2. Reference GTCA-RA for connector details

GTCA-ST straight PCB and GTCA-SF straight flex socket layouts

HIGH DENSITY

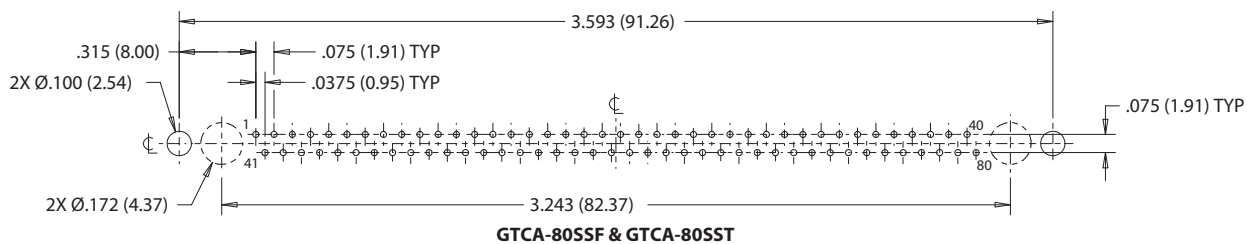
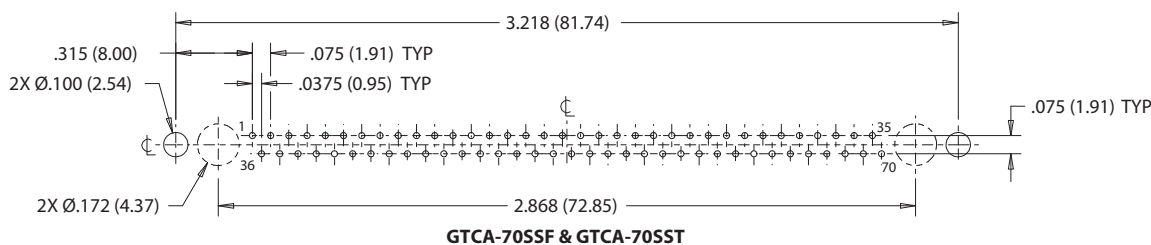
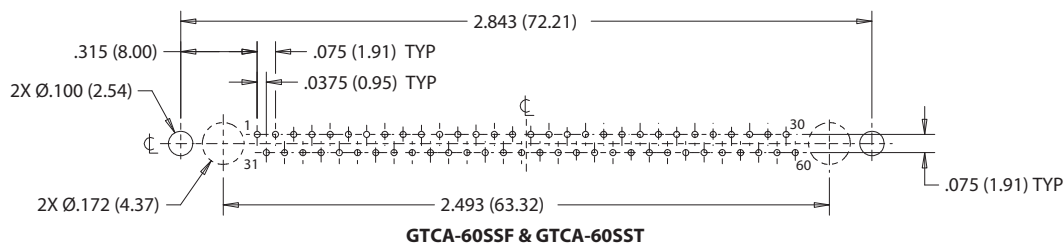
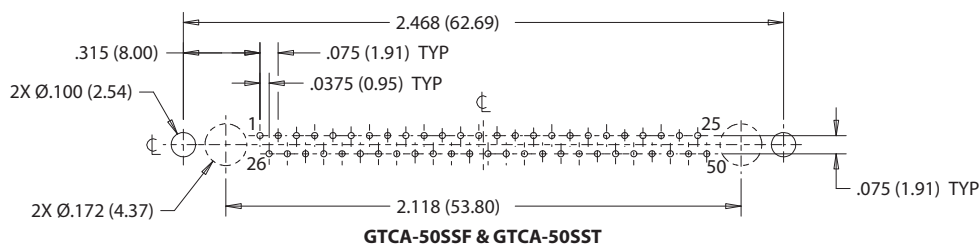
**NOTES:**

1. All patterns shown are for connector mounting side of PCB.
2. The Ø.172 (4.37) ref. holes shown are only required when the connector contains turning jackset hardware.
3. Reference GTCA-SF and GTCA-ST for connector details

Rectangular I/O and Printed Circuit Board Connectors

GTCA-ST straight PCB and GTCA-SF straight flex socket layouts

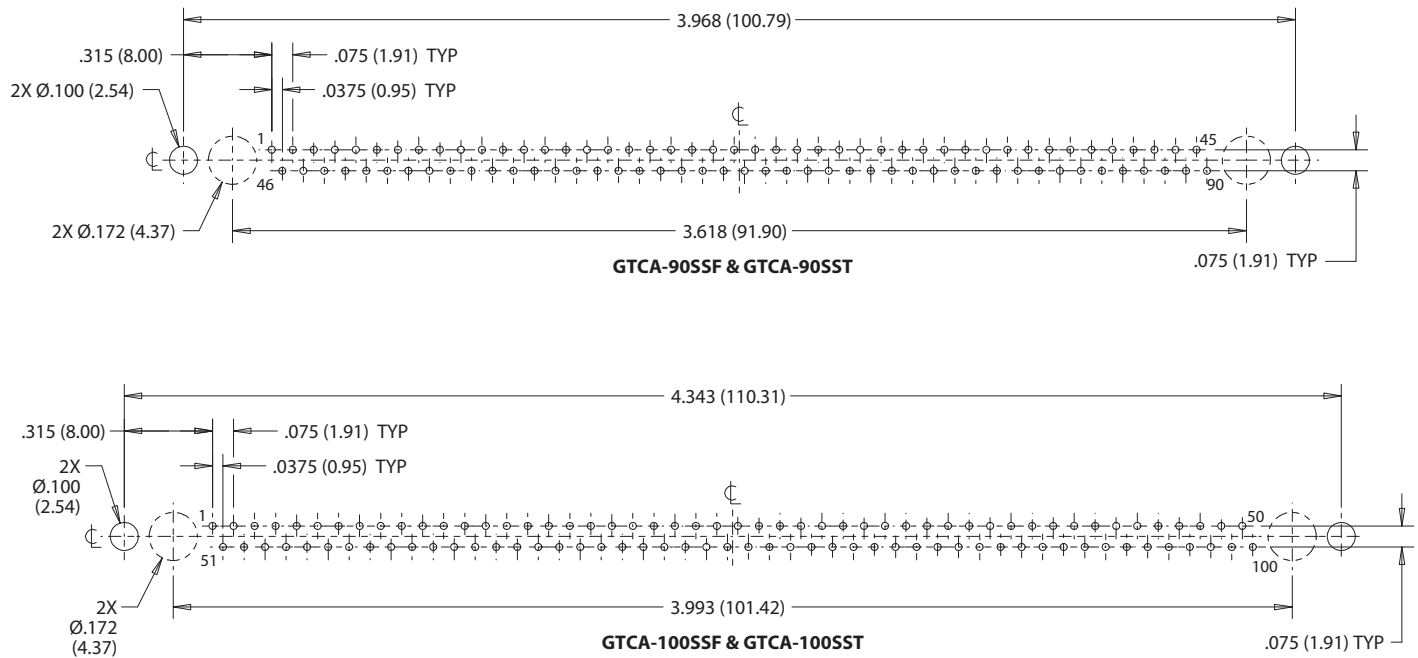
HIGH DENSITY

**NOTES:**

1. All patterns shown are for connector mounting side of PCB.
2. The Ø.172 (4.37) ref. holes shown are only required when the connector contains turning jackset hardware.
3. Reference GTCA-SF and GTCA-ST for connector details

GTCA-ST straight PCB and GTCA-SF straight flex socket layouts

HIGH DENSITY

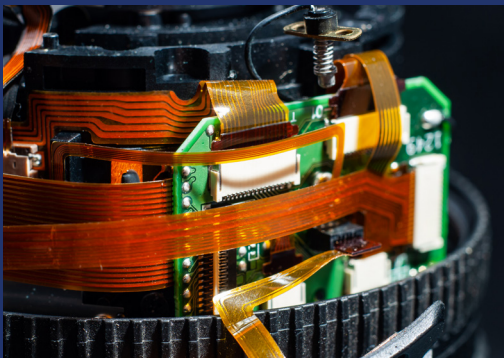
**NOTES:**

1. All patterns shown are for connector mounting side of PCB.
2. The Ø.172 (4.37) ref. holes shown are only required when the connector contains turning jackset hardware.
3. Reference GTCA-SF and GTCA-ST for connector details

AEROSPACE-GRADE SuperFlex™

PCB/FLEX CIRCUIT ASSEMBLIES

Turnkey connectorized flex and rigid flex interconnect assemblies—electrical and optical—incorporating Glenair-made circular and rectangular PC-tail connectors—terminated, tested, and ready for immediate use.

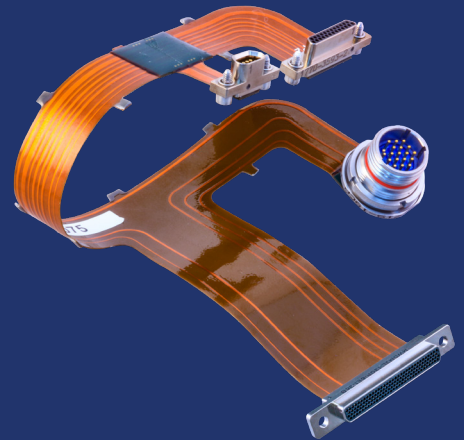


Glenair SuperFlex are PCB / flex interconnect assemblies, produced 100% in-house by Glenair utilizing our own high-performance range of printed circuit board connectors. Typical SuperFlex assemblies are I/O-to-board format solutions designed for optimal size, weight, and routing.

In many applications, Glenair flex and rigid-flex interconnect

circuits are superior to conventional wiring as they can be easily routed in three dimensions, are lighter and smaller than discrete wires, and offer virtually unlimited flex cycles in articulated applications.

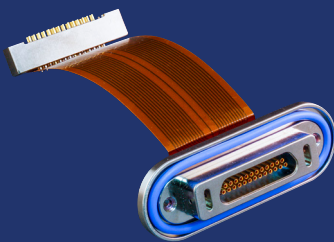
Compared with conventional wiring, compact, flexible SuperFlex printed circuit assemblies reduce system complexity and assembly time as well as enhance reliability. Due to their low mass and high circuit density, SuperFlex assemblies are less susceptible to impact and vibration damage than conventional wire harness assemblies, making them an ideal choice in missile and other reduced form-factor applications. Shielding, strain relief, as well as single- and double-sided designs are standard features.



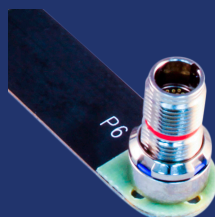
IPC 6012/6013 Class I, II, III,
Types 1-4 Certified Production

Glenair recommends commercial customers specify IPC-6012/6013 standards of workmanship, which are fully supported by Glenair. Military customers may alternatively cite specifications IAW MIL-PRF-31032.

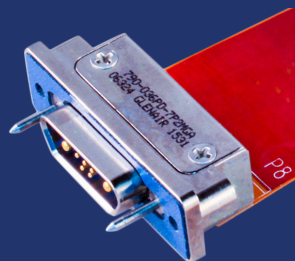
GLENAIR SIGNATURE PC-TAIL CONNECTOR TYPES AVAILABLE IN TURNKEY FLEX ASSEMBLIES



Series MWD Micro-D and
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Series 88
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SuperNine MIL-DTL-38999 type flex
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MISSION-CRITICAL INTERCONNECT SOLUTIONS

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