

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

HIGH DENSITY



NOTES

- Refer to drawing 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-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						

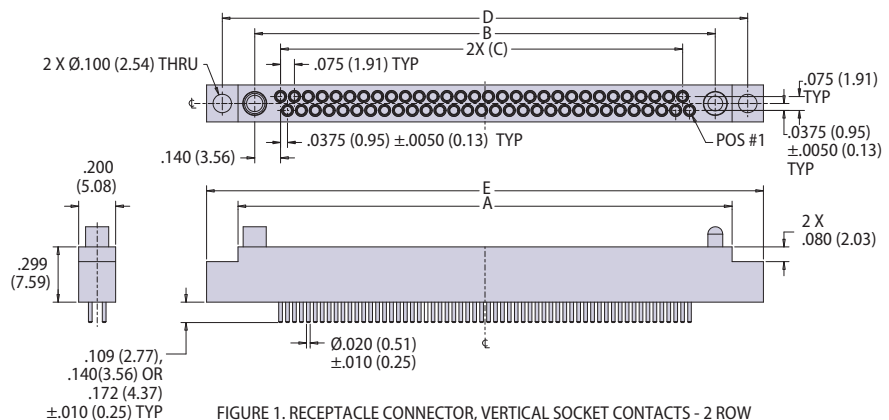
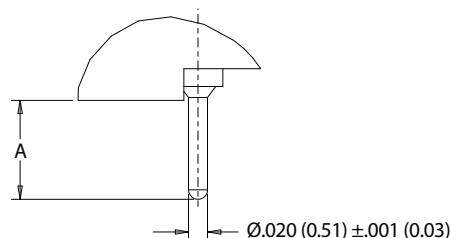


FIGURE 1. RECEPTACLE CONNECTOR, VERTICAL SOCKET CONTACTS - 2 ROW

PCB TERMINATION DETAIL (ST)



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