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

HIGH DENSITY

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.

NOTES

1. Refer to drawing GTC for hardware option details on page 46
2. 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
3. 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

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**

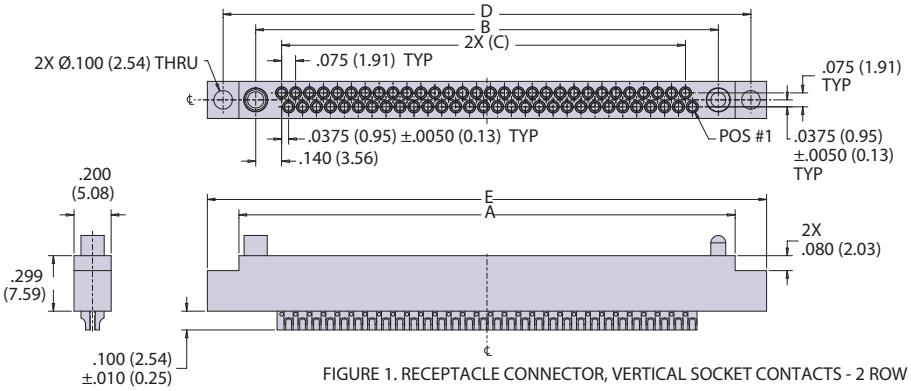
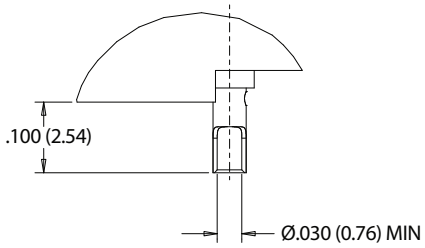


FIGURE 1. RECEPTACLE CONNECTOR, VERTICAL SOCKET CONTACTS - 2 ROW

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)

SOLDER CUP TERMINATION DETAIL (SC)



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Dimensions in Inches (millimeters) are subject to change without notice.