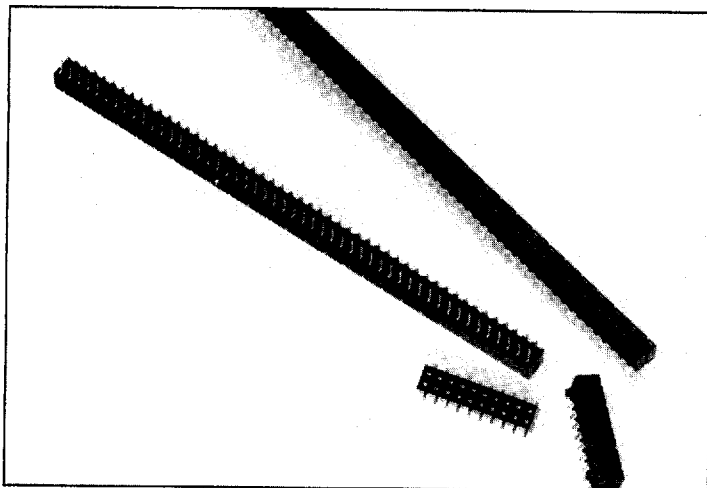


2mm Sockets

P2 Series



- High temp, surface mount compatible
- Right angle socket offers variable standoff heights and locator posts to address 2.5" disc drive requirements
- Top and bottom (inverse) entry option gives greater flexibility for PCB stacking
- .004"-.006" coplanarity and optional locator pegs on SMT product facilitate alignment and integrity of leads on solder pads
- Early point of contact insures adequate wiping action and reliable contact
- Optional flanges to accommodate various mounting configurations

How To Order P2 Socket Series

P2 D S — XXX LP — XXX X — XX

Series —
D = Dual Row
S = Socket
*Number of Contacts:
4-60 Vertical
4-60 Right Angle
4-60 Surface Mount

LP = Low Profile
(4-30 position SM & SML sockets only)
Blank = All other products

Plating Code: Specify TR
Right Angle Socket Only (50 Pin Only)
A = 1.6 (.063") Standoff*/2.921 (.115") Tail
B = 2.0 (.079") Standoff*/2.540 (.100") Tail
C = 2.6 (.102") Standoff*/1.930 (.076") Tail
*Standoff to centerline on 1st row
Blank = All other products

Tail Configuration/Length:
S1 = Solder, Vertical/3.00 (.118")
B1 = Solder, Bottom Entry/3.00 (.118")
R1 = Solder, Right Angle/3.00 (.118")
ROL = Solder, Right Angle with locator peg and Standoffs (50 position only)
SM = SMT without locator peg
SML = SMT with locator peg (10-60 position only)

*Contact factory for alternative pin counts and tail lengths

Materials:

Body: High temp, black thermoplastic
Contacts: Phosphor Bronze

Performance Characteristics:

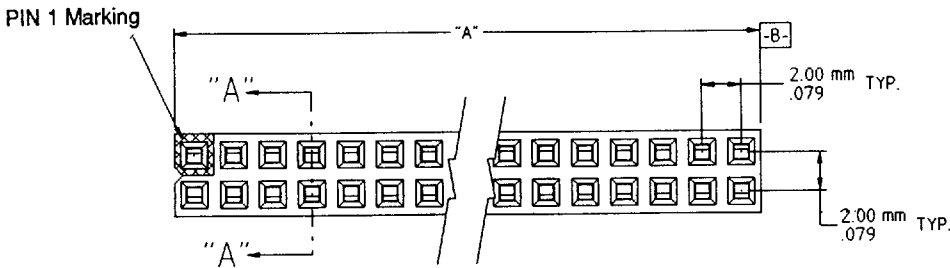
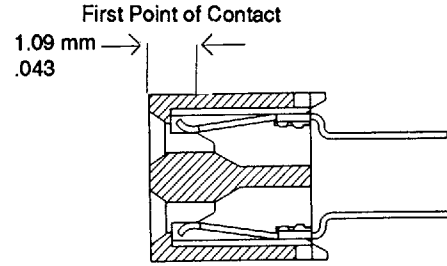
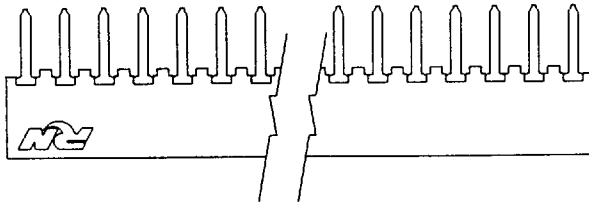
Insertion Force: 100 grams max. per contact
Withdrawal Force: 20 grams min. per contact
Normal Force: 62 grams min. end of life
Durability: 500 mating cycles
Contact Resistance: 20 mΩ maximum
Insulation Resistance: 1000 Mohms minimum
Dielectric Withstanding Voltage: 650 volts AC
Current Rating: 1 Ampere continuous
Temperature Range: -40°C to +105°C
Flammability: UL 94V-0

Plating Description:

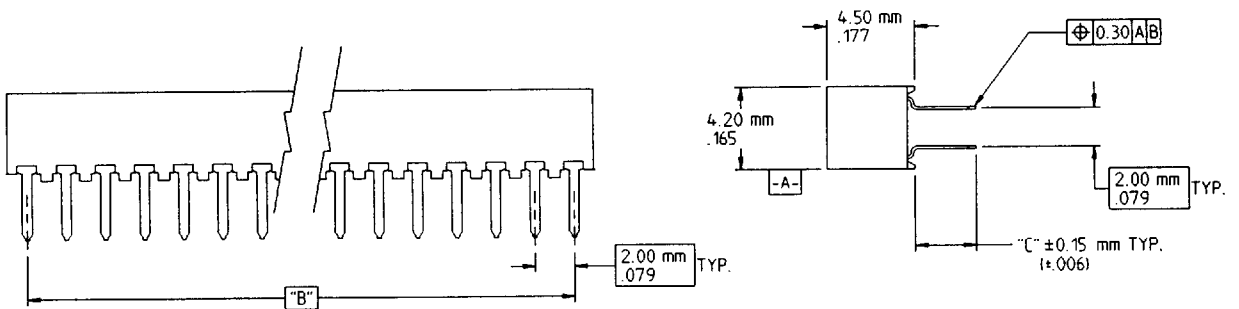
Suffix: TR = ROBEX® [7 μinch (.178 μm) minimum Palladium Nickel with 3 μinch (.076 μm) minimum Gold flash] on contact area.
100 μinch (2.54 μm) minimum Tin on terminal area.
50 μinch (.127 μm) minimum Nickel underplate

Contact factory for alternative plating options.

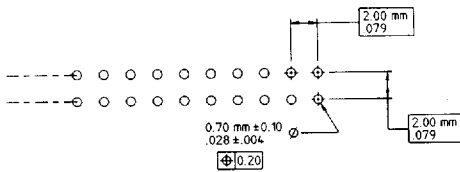
Top Entry Through Hole P2DS-XXX-S1-TR



SECTION "A-A"

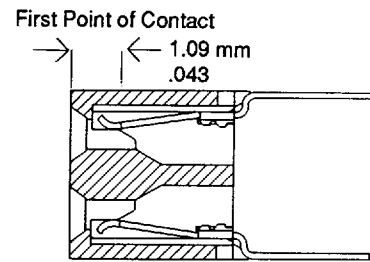
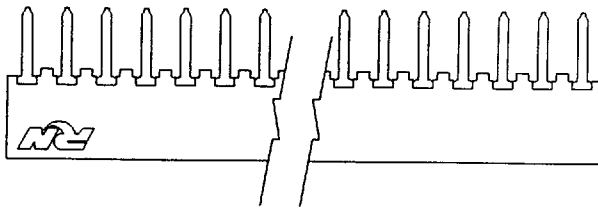


Printed Circuit Board Layout

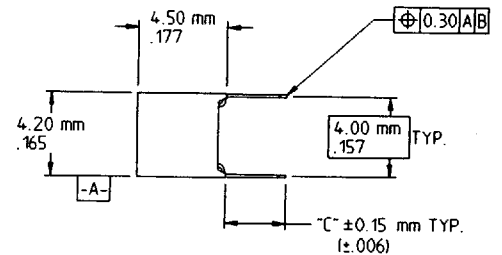
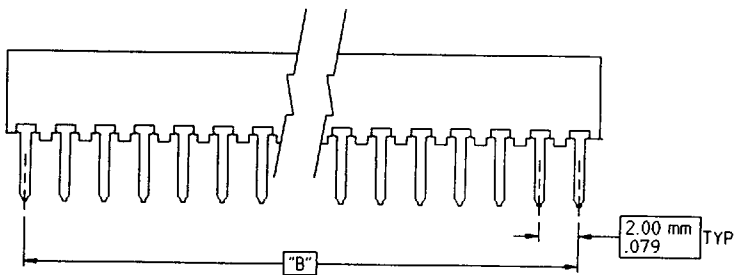
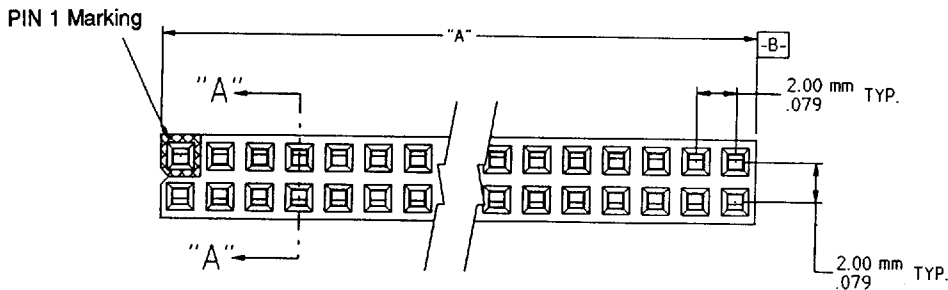


No. of Contacts	Dim "A" mm (inch)	Dim "B" mm (inch)	Dim "C" mm (inch)
4	4.00 (.157)	2.00 (.079)	—
6	6.00 (.236)	4.00 (.157)	3.00 (.118)
8	8.00 (.315)	6.00 (.236)	3.00 (.118)
10	10.00 (.394)	8.00 (.315)	3.00 (.118)
12	12.00 (.472)	10.00 (.394)	3.00 (.118)
14	14.00 (.551)	12.00 (.472)	3.00 (.118)
16	16.00 (.630)	14.00 (.551)	3.00 (.118)
18	18.00 (.709)	16.00 (.630)	3.00 (.118)
20	20.00 (.787)	18.00 (.709)	3.00 (.118)
22	22.00 (.866)	20.00 (.787)	3.00 (.118)
24	24.00 (.945)	22.00 (.866)	3.00 (.118)
26	26.00 (1.024)	24.00 (.945)	3.00 (.118)
28	28.00 (1.102)	26.00 (1.024)	3.00 (.118)
30	30.00 (1.181)	28.00 (1.102)	3.00 (.118)
34	34.00 (1.339)	32.00 (1.260)	3.00 (.118)
36	36.00 (1.417)	34.00 (1.339)	3.00 (.118)
40	40.00 (1.575)	38.00 (1.496)	3.00 (.118)
44	44.00 (1.732)	42.00 (1.654)	3.00 (.118)
50	50.00 (1.969)	48.00 (1.890)	3.00 (.118)
60	60.00 (2.362)	58.00 (2.283)	3.00 (.118)

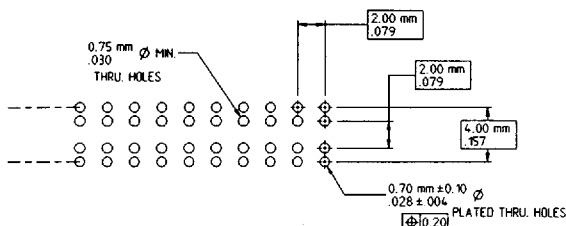
Top/Bottom (Inverse) Entry Through Hole P2DS-XXX-B1-TR



SECTION "A-A"

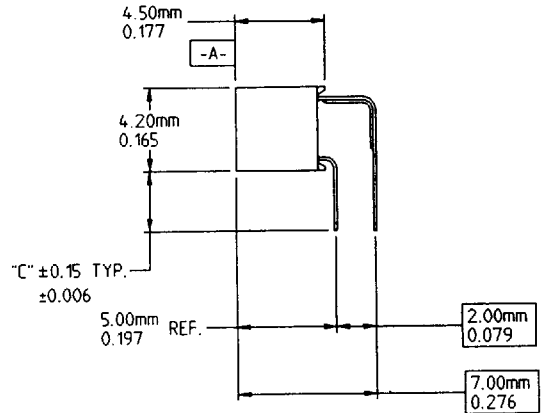
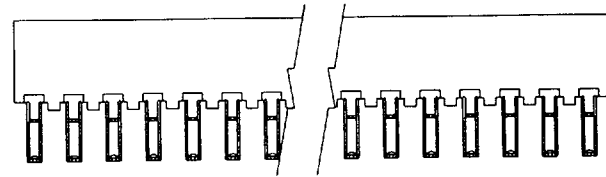
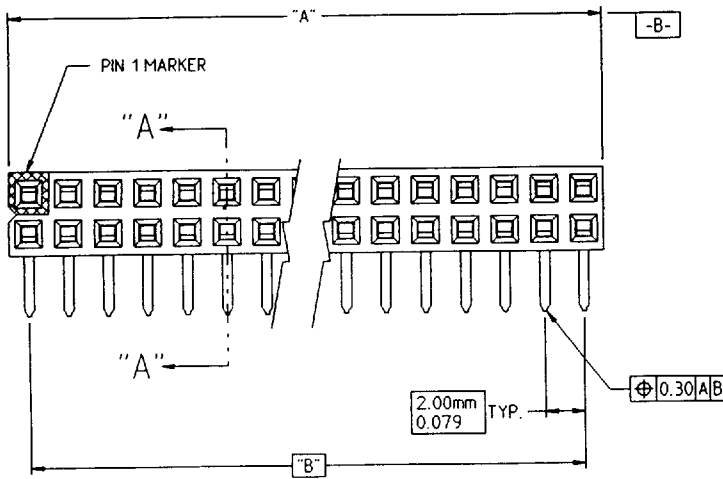
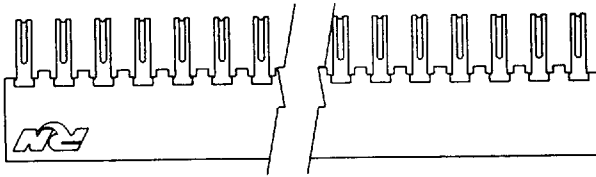


Printed Circuit Board Layout

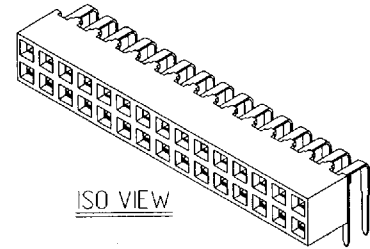


No. of Contacts	Dim "A" mm (inch)	Dim "B" mm (inch)	Dim "C" mm (inch)
4	4.00 (.157)	2.00 (.079)	—
6	6.00 (.236)	4.00 (.157)	3.00 (.118)
8	8.00 (.315)	6.00 (.236)	3.00 (.118)
10	10.00 (.394)	8.00 (.315)	3.00 (.118)
12	12.00 (.472)	10.00 (.394)	3.00 (.118)
14	14.00 (.551)	12.00 (.472)	3.00 (.118)
16	16.00 (.630)	14.00 (.551)	3.00 (.118)
18	18.00 (.709)	16.00 (.630)	3.00 (.118)
20	20.00 (.787)	18.00 (.709)	3.00 (.118)
22	22.00 (.866)	20.00 (.787)	3.00 (.118)
24	24.00 (.945)	22.00 (.866)	3.00 (.118)
26	26.00 (1.024)	24.00 (.945)	3.00 (.118)
28	28.00 (1.102)	26.00 (1.024)	3.00 (.118)
30	30.00 (1.181)	28.00 (1.102)	3.00 (.118)
34	34.00 (1.339)	32.00 (1.260)	3.00 (.118)
36	36.00 (1.417)	34.00 (1.339)	3.00 (.118)
40	40.00 (1.575)	38.00 (1.496)	3.00 (.118)
44	44.00 (1.732)	42.00 (1.654)	3.00 (.118)
50	50.00 (1.969)	48.00 (1.890)	3.00 (.118)
60	60.00 (2.362)	58.00 (2.283)	3.00 (.118)

Right Angle Through Hole P2DS-XXX-R1-TR

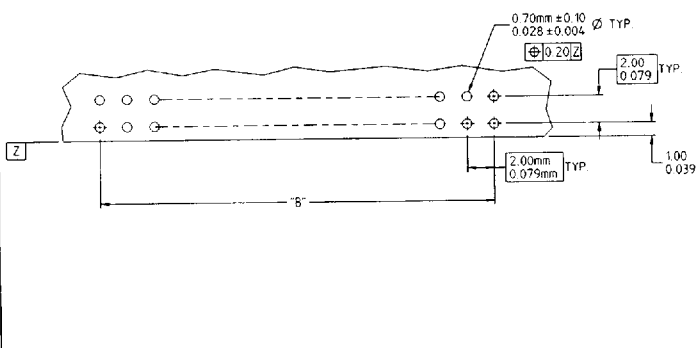


SECTION "A-A"



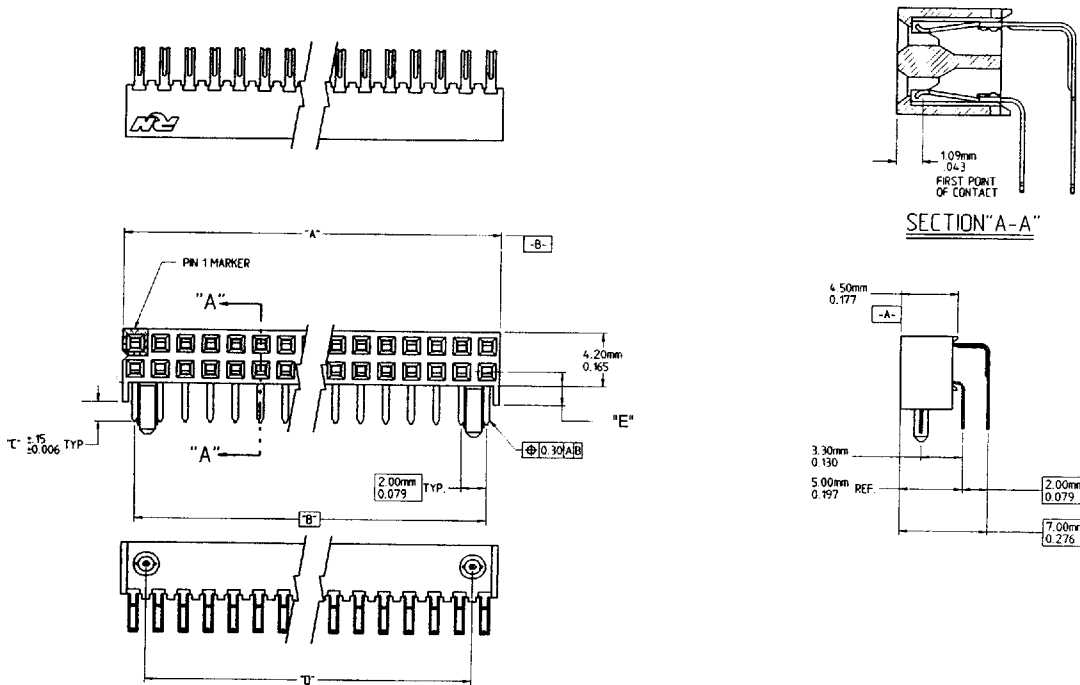
ISO VIEW

Printed Circuit Board Layout



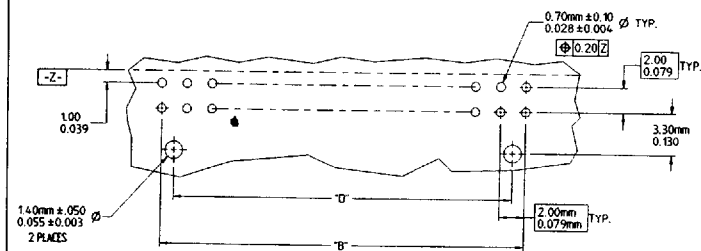
No. of Contacts	Dim "A" mm (inch)	Dim "B" mm (inch)	Dim "C" mm (inch)
4	4.00 (.157)	2.00 (.079)	—
6	6.00 (.236)	4.00 (.157)	3.00 (.118)
8	8.00 (.315)	6.00 (.236)	3.00 (.118)
10	10.00 (.394)	8.00 (.315)	3.00 (.118)
12	12.00 (.472)	10.00 (.394)	3.00 (.118)
14	14.00 (.551)	12.00 (.472)	3.00 (.118)
16	16.00 (.630)	14.00 (.551)	3.00 (.118)
18	18.00 (.709)	16.00 (.630)	3.00 (.118)
20	20.00 (.787)	18.00 (.709)	3.00 (.118)
22	22.00 (.866)	20.00 (.787)	3.00 (.118)
24	24.00 (.945)	22.00 (.866)	3.00 (.118)
26	26.00 (1.024)	24.00 (.945)	3.00 (.118)
28	28.00 (1.102)	26.00 (1.024)	3.00 (.118)
30	30.00 (1.181)	28.00 (1.102)	3.00 (.118)
34	34.00 (1.339)	32.00 (1.260)	3.00 (.118)
36	36.00 (1.417)	34.00 (1.339)	3.00 (.118)
40	40.00 (1.575)	38.00 (1.496)	3.00 (.118)
44	44.00 (1.732)	42.00 (1.654)	3.00 (.118)
50	50.00 (1.969)	48.00 (1.890)	3.00 (.118)
60	60.00 (2.362)	58.00 (2.283)	3.00 (.118)

Right Angle Through Hole with Locator Posts and Variable Standoff P2DS-050-ROLX-TR

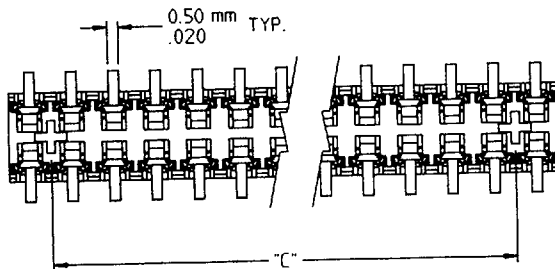
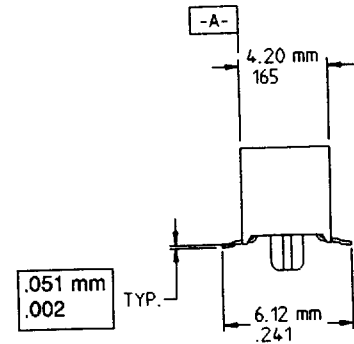
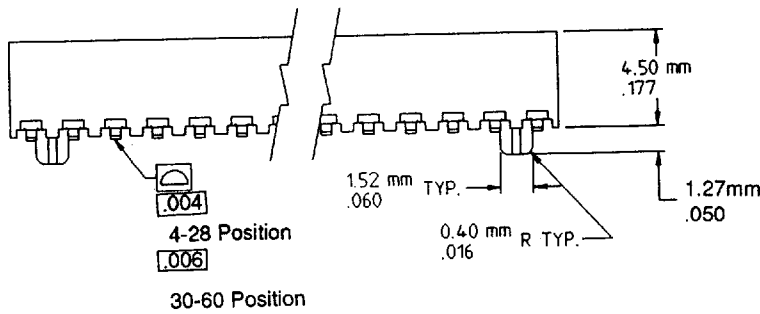
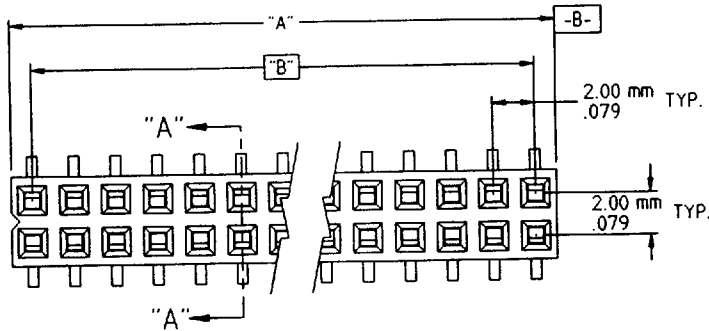


Description	Dim "A" mm (inch)	Dim "B" mm (inch)	Dim "C" mm (inch)	Dim "D" mm (inch)	Dim "E" mm (inch)
P2DS-050-ROLA-TR	50.00 (1.969)	48.00 (1.890)	2.921 (.115)	46.00 (1.811)	1.600 (.063)
P2DS-050-ROLB-TR	50.00 (1.969)	48.00 (1.890)	2.540 (.100)	46.00 (1.811)	2.000 (.079)
P2DS-050-ROLC-TR	50.00 (1.969)	48.00 (1.890)	1.930 (.076)	46.00 (1.811)	2.600 (.102)

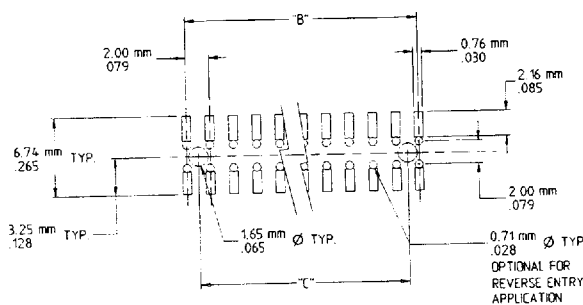
Printed Circuit Board Layout



Top/Bottom Entry Surface Mount P2DS-XXX-SML-TR

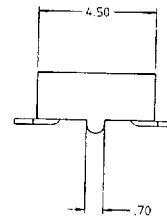
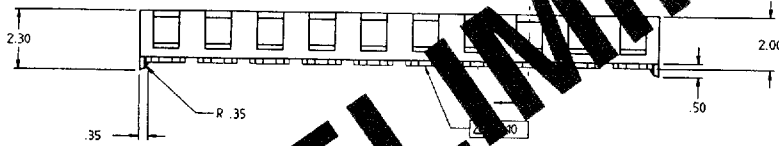
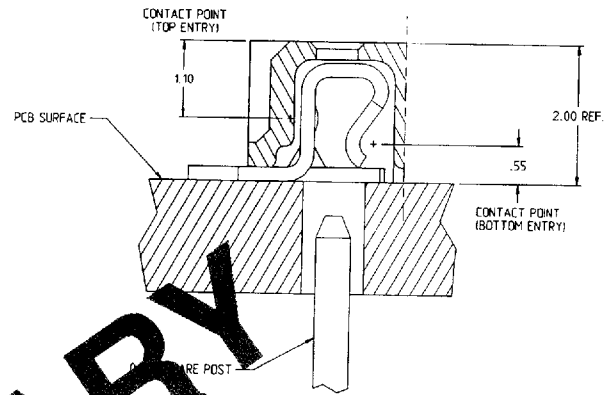
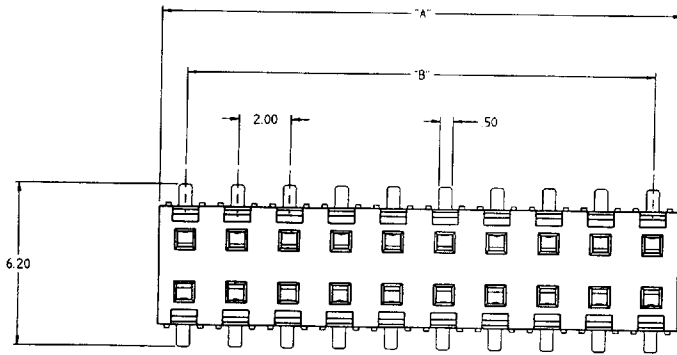


Printed Circuit Board Layout



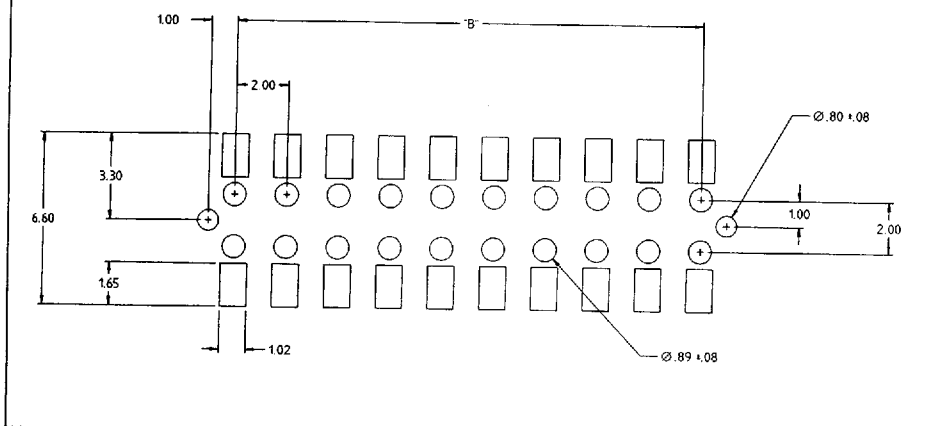
No. of Contacts	Dim "A" mm (inch)	Dim "B" mm (inch)	Dim "C" mm (inch)
4	4.00 (.157)	2.00 (.079)	—
6	6.00 (.236)	4.00 (.157)	2.00 (.079)
8	8.00 (.315)	6.00 (.236)	4.00 (.157)
10	10.00 (.394)	8.00 (.315)	6.00 (.236)
12	12.00 (.472)	10.00 (.394)	8.00 (.315)
14	14.00 (.551)	12.00 (.472)	10.00 (.394)
16	16.00 (.630)	14.00 (.551)	12.00 (.472)
18	18.00 (.709)	16.00 (.630)	14.00 (.551)
20	20.00 (.787)	18.00 (.709)	16.00 (.630)
22	22.00 (.866)	20.00 (.787)	18.00 (.709)
24	24.00 (.945)	22.00 (.866)	20.00 (.787)
26	26.00 (1.024)	24.00 (.945)	22.00 (.866)
28	28.00 (1.102)	26.00 (1.024)	24.00 (.945)
30	30.00 (1.181)	28.00 (1.102)	26.00 (1.024)
34	34.00 (1.339)	32.00 (1.260)	30.00 (1.181)
36	36.00 (1.417)	34.00 (1.339)	32.00 (1.260)
40	40.00 (1.575)	38.00 (1.496)	36.00 (1.417)
44	44.00 (1.732)	40.00 (1.654)	40.00 (1.575)
50	50.00 (1.969)	48.00 (1.890)	46.00 (1.811)
60	60.00 (2.362)	58.00 (2.283)	56.00 (2.205)

Top/Bottom Low Profile Surface Mount P2DS-XXX-SMLP-TR



PRELIMINARY

Printed Circuit Board Layout



No. of Contacts	Dim "A" mm (inch)	Dim "B" mm (inch)
4	4.00 (.157)	2.00 (.079)
6	6.00 (.236)	4.00 (.157)
8	8.00 (.315)	6.00 (.236)
10	10.00 (.394)	8.00 (.315)
12	12.00 (.472)	10.00 (.394)
14	14.00 (.551)	12.00 (.472)
16	16.00 (.630)	14.00 (.551)
18	18.00 (.709)	16.00 (.630)
20	20.00 (.787)	18.00 (.709)
22	22.00 (.866)	20.00 (.787)
24	24.00 (.945)	22.00 (.866)
26	26.00 (1.024)	24.00 (.945)
28	28.00 (1.102)	26.00 (1.024)
30	30.00 (1.181)	28.00 (1.102)

RN PAK-2