

2mm PITCH

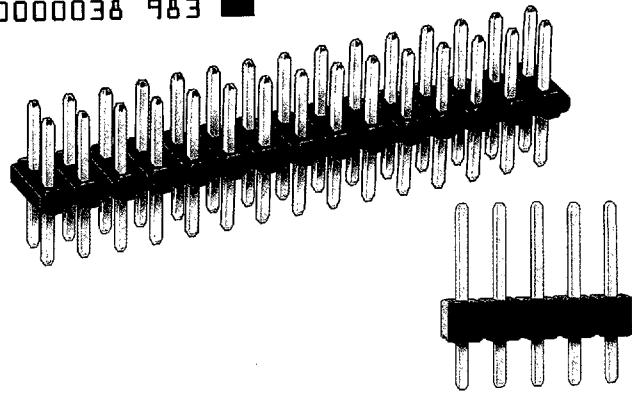
M22 CONNECTORS

Vertical Pin Headers

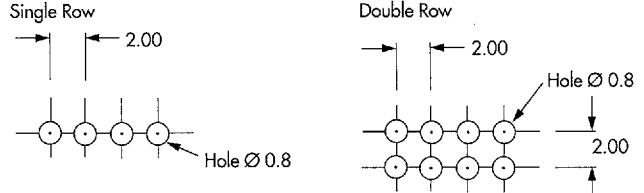
A range of single and double row vertical pin headers which can be used with jumper sockets shown on page F5 and pc board sockets shown on pages F2 to F4. Choice of plating finish.

- Plug contacts 0.5mm square phosphor bronze wire.
- Headers can be cut into smaller sizes.
- M22-208 range mates with bottom entry socket on page F4.
- For pin header variants see pages F12 to F13.

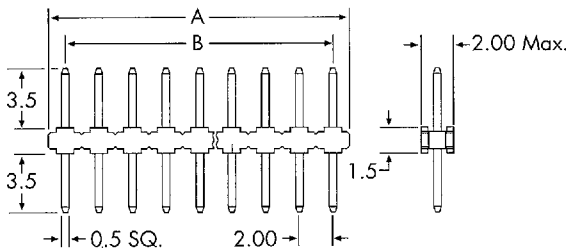
Please contact Technical Sales for sizes above 25 single row and 25+25 double row, up to a maximum of 50 ways.



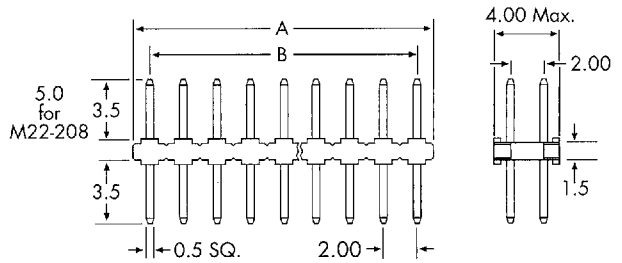
Recommended PC Board Patterns



SINGLE ROW



DOUBLE ROW



No. of Ways	A	B	Order Code	
			Tin	Gold
2	4.00	2.00	M22-2010206	M22-2010205
3	6.00	4.00	M22-2010306	M22-2010305
4	8.00	6.00	M22-2010406	M22-2010405
5	10.00	8.00	M22-2010506	M22-2010505
6	12.00	10.00	M22-2010606	M22-2010605
7	14.00	12.00	M22-2010706	M22-2010705
8	16.00	14.00	M22-2010806	M22-2010805
9	18.00	16.00	M22-2010906	M22-2010905
10	20.00	18.00	M22-2011006	M22-2011005
11	22.00	20.00	M22-2011106	M22-2011105
12	24.00	22.00	M22-2011206	M22-2011205
13	26.00	24.00	M22-2011306	M22-2011305
14	28.00	26.00	M22-2011406	M22-2011405
15	30.00	28.00	M22-2011506	M22-2011505
16	32.00	30.00	M22-2011606	M22-2011605
17	34.00	32.00	M22-2011706	M22-2011705
18	36.00	34.00	M22-2011806	M22-2011805
19	38.00	36.00	M22-2011906	M22-2011905
20	40.00	38.00	M22-2012006	M22-2012005
21	42.00	40.00	M22-2012106	M22-2012105
22	44.00	42.00	M22-2012206	M22-2012205
23	46.00	44.00	M22-2012306	M22-2012305
24	48.00	46.00	M22-2012406	M22-2012405
25	50.00	48.00	M22-2012506	M22-2012505

No. of Ways	A	B	Order Code		Order Code	
			Tin	Gold	Tin	Gold
2+2	4.00	2.00	M22-2020206	M22-2020205	M22-2080206	M22-2080205
3+3	6.00	4.00	M22-2020306	M22-2020305	M22-2080306	M22-2080305
4+4	8.00	6.00	M22-2020406	M22-2020405	M22-2080406	M22-2080405
5+5	10.00	8.00	M22-2020506	M22-2020505	M22-2080506	M22-2080505
6+6	12.00	10.00	M22-2020606	M22-2020605	M22-2080606	M22-2080605
7+7	14.00	12.00	M22-2020706	M22-2020705	M22-2080706	M22-2080705
8+8	16.00	14.00	M22-2020806	M22-2020805	M22-2080806	M22-2080805
9+9	18.00	16.00	M22-2020906	M22-2020905	M22-2080906	M22-2080905
10+10	20.00	18.00	M22-2021006	M22-2021005	M22-2081006	M22-2081005
11+11	22.00	20.00	M22-2021106	M22-2021105	M22-2081106	M22-2081105
12+12	24.00	22.00	M22-2021206	M22-2021205	M22-2081206	M22-2081205
13+13	26.00	24.00	M22-2021306	M22-2021305	M22-2081306	M22-2081305
14+14	28.00	26.00	M22-2021406	M22-2021405	M22-2081406	M22-2081405
15+15	30.00	28.00	M22-2021506	M22-2021505	M22-2081506	M22-2081505
16+16	32.00	30.00	M22-2021606	M22-2021605	M22-2081606	M22-2081605
17+17	34.00	32.00	M22-2021706	M22-2021705	M22-2081706	M22-2081705
18+18	36.00	34.00	M22-2021806	M22-2021805	M22-2081806	M22-2081805
19+19	38.00	36.00	M22-2021906	M22-2021905	M22-2081906	M22-2081905
20+20	40.00	38.00	M22-2022006	M22-2022005	M22-2082006	M22-2082005
21+21	42.00	40.00	M22-2022106	M22-2022105	M22-2082106	M22-2082105
22+22	44.00	42.00	M22-2022206	M22-2022205	M22-2082206	M22-2082205
23+23	46.00	44.00	M22-2022306	M22-2022305	M22-2082306	M22-2082305
24+24	48.00	46.00	M22-2022406	M22-2022405	M22-2082406	M22-2082405
25+25	50.00	48.00	M22-2022506	M22-2022505	M22-2082506	M22-2082505

F8

Materials

Housing: Glass filled or high temperature thermoplastic UL94V-0
 Male Contacts: Phosphor bronze
 Female contacts: Phosphor bronze
 Jumper Socket contacts: Beryllium copper
 Plating finish: See individual pages

M22 CONNECTORS

Specification

2mm PITCH

Electrical

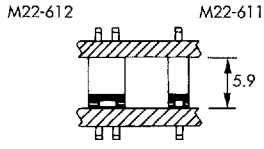
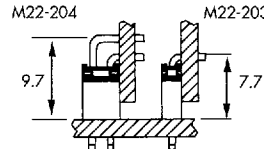
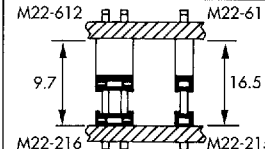
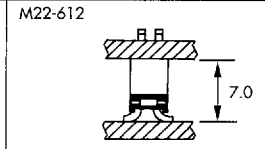
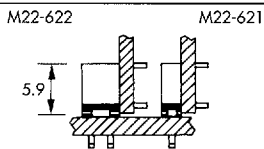
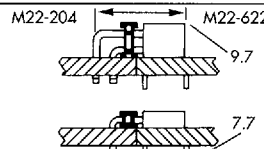
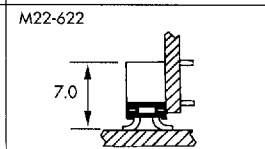
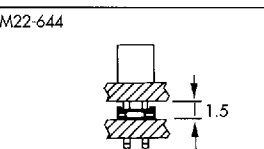
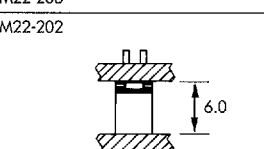
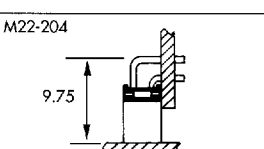
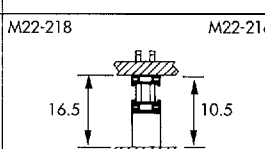
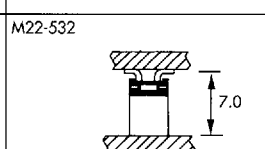
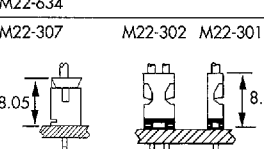
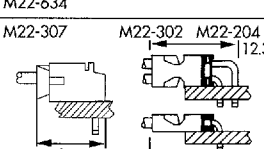
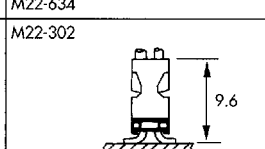
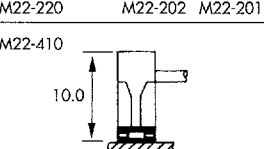
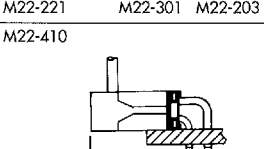
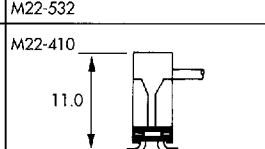
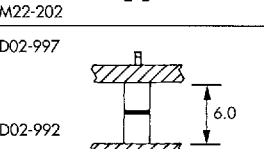
Maximum Current: 2A at 25°C (individual)
 Maximum Current: 1A at 25°C (all contacts)
 Working voltage: 250V dc or ac peak
 Contact resistance: (initial): 20 milliohms max.
 (after conditioning): 30 milliohms max.
 Insulation resistance: 1x10⁴ Megohms min.

Environmental

Temperature classification: -40/+105/21 days 95% RH
 Low air pressure: 300m bar severity

Mechanical

Contact insertion force: 2N max (connectors)
 Contact insertion force: 4.5N max (jumpers)
 Contact withdrawal force: 0.2N min (connectors)
 Contact withdrawal force: 0.6N min (jumpers)
 Mechanical endurance: Gold plated 300 operations.
 Tin plated 50 operations.

M22 SOCKETS	MALE CONNECTORS			
	VERTICAL	HORIZONTAL	VERTICAL EXTENDED	VERTICAL SMT
VERTICAL PC TAIL	M22-612 M22-611  M22-282 M22-201	M22-204 M22-203  M22-612 M22-611	M22-612 M22-611  M22-216 M22-218 M22-215 M22-217	M22-612  M22-532
HORIZONTAL PC TAIL	M22-622 M22-621  M22-202 M22-201	M22-204 M22-622  M22-203 M22-621	NOT AVAILABLE	M22-622  M22-532
BOTTOM ENTRY	M22-644  M22-208	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
VERTICAL SURFACE MOUNT	M22-202  M22-634	M22-204  M22-634	M22-218 M22-216  M22-634	M22-532  M22-634
CRIMP	M22-307 M22-302 M22-301  M22-220 M22-202 M22-201	M22-307 M22-302 M22-204  M22-221 M22-301 M22-203	NOT AVAILABLE	M22-302  M22-532
IDC	M22-410  M22-202	M22-410  M22-204	NOT AVAILABLE	M22-410  M22-532
TURNED PIN	D02-997  D02-992	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE