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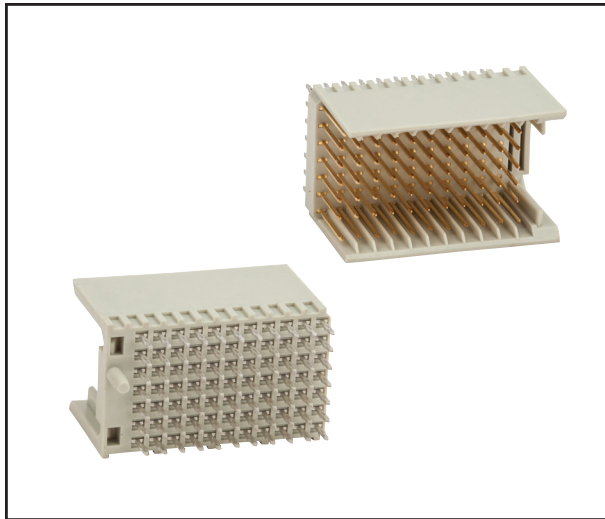
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3M™ CP2 Press-Fit Header

2 mm Type C, 55 Signal Contacts, Left Guidance

CP2 Series



- 25 mm basic system unit
- 2 mm grid spacing allows for high signal density at low cost
- “Eye of the Needle” compliant pin press-fit design helps reduce manufacturing time and cost
- Three contact mating levels for Early Mate Late Break or “Hot Swap” applications reduces manufacturing time and cost
- Feed through termination available for midplane applications
- Additional grounding rows available for improved ground bounce and EMI immunity
- Mates with 5 row 3M™ HSHM, UHM and CP2 Sockets
- End to end stackable with 5 row 3M™ HSHM, HM and CP2 Headers
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: July 16, 2015

TS-2270-C
Sheet 1 of 3

Physical

Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL94V-0

Contact:

Material: Copper Alloy

Plating: See Ordering Information

Mechanical

Mating Force: $\leq 0.75\text{N/PIN}$

Withdrawal Force: $\geq 0.15\text{N/PIN}$

Mating and Un-mating Operations 200 for KR plating

Application: This module is not suitable for stand-alone use. (Refer to IEC-61076-4-101)

Electrical

Current Rating: 1.0 Amperes at 70°C with all contacts powered

Contact Resistance: $\leq 20\text{ m}\Omega$

Insulation Resistance: $\geq 10,000\text{ M}\Omega$

Test Voltage: 750 VAC_{RMS}

Environmental

Temperature Ratings: -55°C to +125°C

PCB Data

Recommended PCB Plated Through Hole: $\varnothing 0.6 \pm 0.05\text{ mm}$

Drill hole diameter $\varnothing 0.7 \pm 0.02\text{ mm}$

Hole platings Cu 25~50 μm , Sn < 10 μm

PCB thickness: 2.4 - 5.6 mm for 3.7 mm tails, 1.4 - 5.6 mm for 2.3 mm tails

Press-In Force: $\leq 204\text{N/pin}$ on nominal hole diameter

Retention Force: $\geq 13.5\text{N/pin}$ on nominal hole diameter

3M

Electronics Materials Solutions Division
Interconnect Solutions

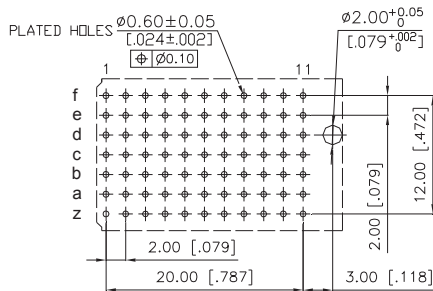
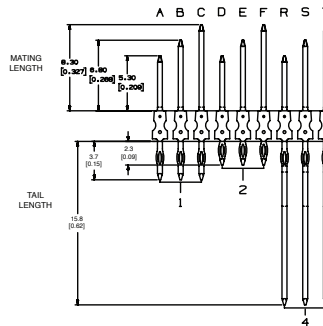
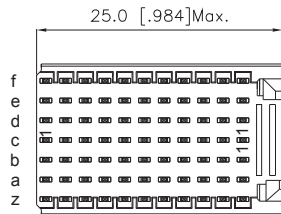
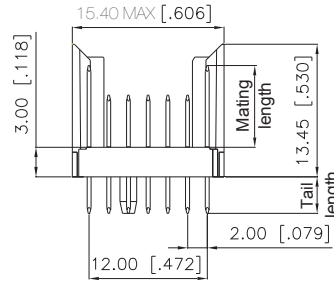
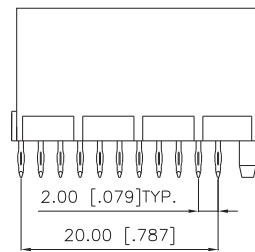
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For technical, sales or ordering information call
800-225-5373

3M™ CP2 Press-Fit Header

2 mm Type C, 55 Signal Contacts, Left Guidance

CP2 Series



RECOMMENDED PCB LAYOUT

	mm [Inch]		
	Tolerance Unless Noted		
	±0.	±.0	±.00
mm	±1	±0.3	±0.13

[] Dimensions for Reference only

- This diagram serves only for Part Number descriptive definitions.
 - For standard product configuration please see following pages.
- PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR CUSTOMER SPECIFIC PRODUCT CONFIGURATIONS.

Ordering Information

CP2-HC055-XXX-XXXX

- | | |
|---|--|
| <p>Loading Configurations</p> <p>(See diagrams on following pages)</p> <ul style="list-style-type: none"> — Grounding Options: <ul style="list-style-type: none"> G= with ground pins Blank= without ground pins — EMLB Patterns — Primary Tail Length <ul style="list-style-type: none"> 1= 3.7mm 2= 2.3mm 4= 15.8mm | <p>Plating Options</p> <p>FJ = 10 ~ 20 μ" Gold Contact Area
100 ~ 200 μ" Matte Tin
50 ~ 80 μ" Nickel Underplate
(RIA E1 & C1 apply)</p> <p>KR = 30 ~ 40 μ" Gold Contact Area
100 ~ 200 μ" Matte Tin
50 ~ 80 μ" Nickel Underplate
(RIA E1 & C1 apply)</p> <p>KV = 30-40 u" Mate End Gold Contact area
Gold Flash Tail Contact area
50-80 u" Nickel Underplate
(RIA E1 & C1 apply)
For Primary Tail Length Option 4 only</p> |
|---|--|

3M™ CP2 Press-Fit Header

2 mm Type C, 55 Signal Contacts, Left Guidance

CP2 Series

CP2-HC055-E1-TG30											Connector Type CL11										
F																					
E	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Z																					
	1	2	3	4	5	6	7	8	9	10	11										

CP2-HC055-GE1-TG30											Connector Type CL11										
F	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
E	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Z	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	1	2	3	4	5	6	7	8	9	10	11										

CP2-HC055-A1-TG30											Connector Type CL11										
F																					
E	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Z																					
	1	2	3	4	5	6	7	8	9	10	11										

CP2-HC055-GA1-TG30											Connector Type CL11										
F	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
E	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
D	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Z	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	1	2	3	4	5	6	7	8	9	10	11										

Signal Contact Configuration Worksheet																					
F																					
E																					
D																					
C																					
B																					
A																					
Z																					
	1	2	3	4	5	6	7	8	9	10	11										

CP2-HC055-GA4-GG30											Connector Type CL11										
F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
D	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
C	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
A	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Z	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1	2	3	4	5	6	7	8	9	10	11										

CP2-HC055-F1-KR											Connector Type CL11										
F																					
E	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Z																					
	1	2	3	4	5	6	7	8	9	10	11										

CP2-HC055-GF1-KR											Connector Type CL11										
F	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
E	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Z	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	1	2	3	4	5	6	7	8	9	10	11										

TS-2270-C
Sheet 3 of 3

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Unless otherwise noted, references to industry specifications are intended to indicate substantial compliance to the material elements of the specification. Such references should not be construed as a guarantee of compliance to all requirements in a given specification.

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RIA-2217A-E