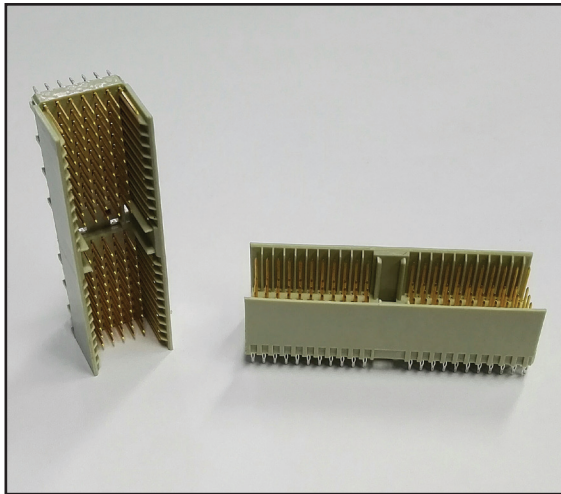


# 3M™ CP2 Press-Fit Header

2 mm Type A 110 Signal Contacts

CP2 Series



- 25 mm basic system unit
- 50 mm module
- 2 mm grid spacing allows for high signal density at low cost
- “Eye of the Needle” compliant pin press-fit design reduces 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](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: August 5, 2015

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## Physical

### Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL94V-0

### Contact:

Material: Copper Alloy

Plating: See Ordering Information

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## Mechanical

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

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

Mating and Un-mating Operations: 200 for KR plating

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## 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<sub>RMS</sub>

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## Environmental

Temperature Ratings: -55°C to +125°C

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## PCB Data

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

Drill Hole Diameter:  $\text{Ø } 0.7 \pm 0.02\text{ mm}$

Hole platings: Cu 25~50  $\mu\text{m}$ , Sn < 10  $\mu\text{m}$

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

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**3M**

Electronics Materials Solutions Division

Interconnect Solutions

<http://www.3Mconnectors.com>

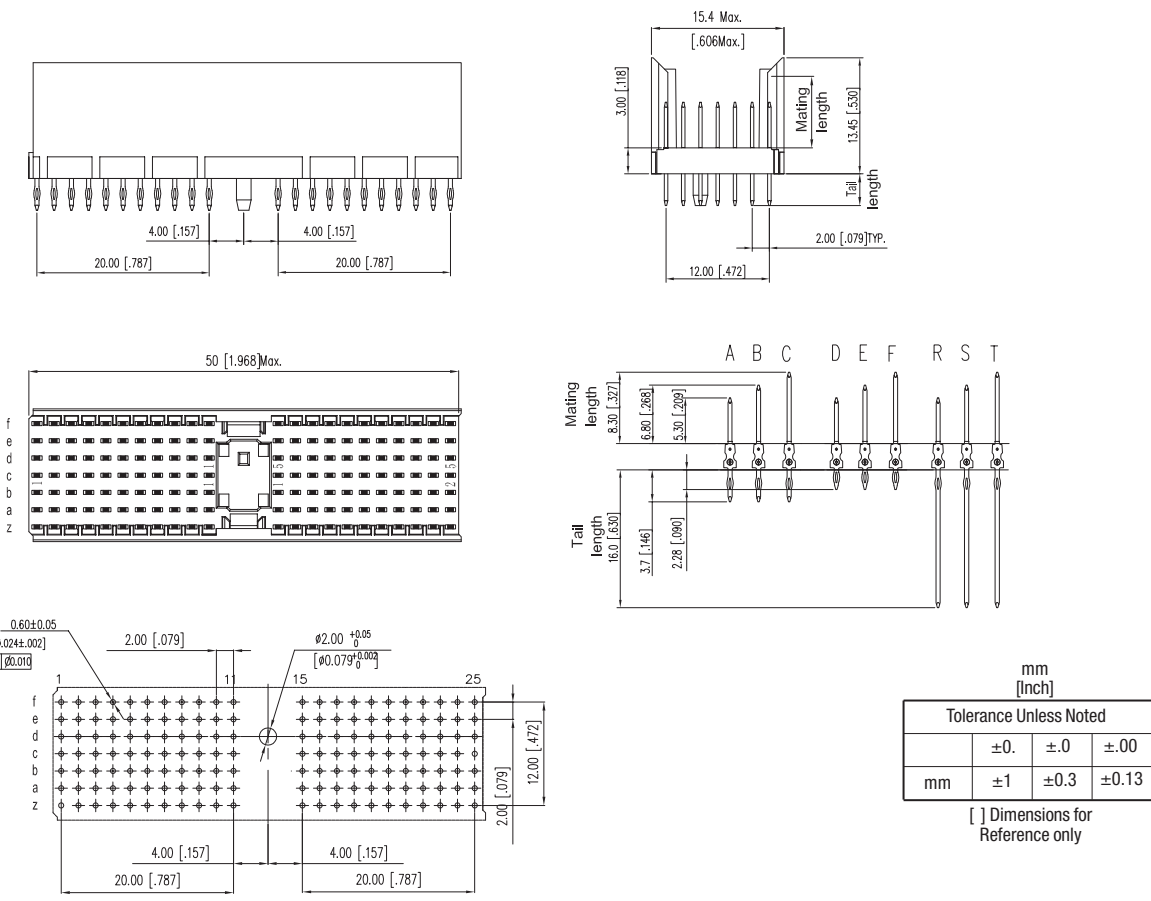
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**800-225-5373**

# 3M™ CP2 Press-Fit Header

2 mm Type A 110 Signal Contacts

CP2 Series



## Ordering Information

### CP2-HA110-XXX-XXXX

#### Loading Configurations

(See diagrams on following pages)

#### Grounding Options:

- G= with ground pins
- Blank= without ground pins
- EMLB Patterns

#### Primary Tail Length

- 1= 3.7 mm
- 2= 2.3 mm
- 4= 15.8 mm

#### Plating Options

- FJ= 10~20 μ" Gold Contact Area  
100~200 μ" Matte Tin  
50~80 μ" Nickel Underplate  
(RIA E1 & C1 apply)
- KR= 30~40 μ" Gold Contact Area  
100~200 μ" Matte Tin  
50~80 μ" Nickel Underplate  
(RIA E1 & C1 apply)
- KV= 30~40 μ" Mate End Gold Contact area  
Gold Flash Tail Contact area  
50~80 μ" Nickel Underplate  
(RIA E1 & C1 apply)  
For Primary Tail Length Option 4 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.

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Sheet 2 of 5



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# 3M™ CP2 Press-Fit Header

2 mm Type A 110 Signal Contacts

CP2 Series

CP2-HA110-F1-KR											Connector Type A22																			
F																														
E	A	A	A	A	A	A	A	A	A	A	A																			
D	A	A	A	A	A	A	A	A	A	A	A																			
C	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																			
Z																														
	1	2	3	4	5	6	7	8	9	10	11																			

CP2-HA110-GF1-KR											Connector Type A22																			
F	C	C	C	C	C	C	C	C	C	C	C																			
E	A	A	A	A	A	A	A	A	A	A	A																			
D	A	A	A	A	A	A	A	A	A	A	A																			
C	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																			
Z	C	C	C	C	C	C	C	C	C	C	C																			
	1	2	3	4	5	6	7	8	9	10	11																			

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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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- Техническая поддержка проекта;
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