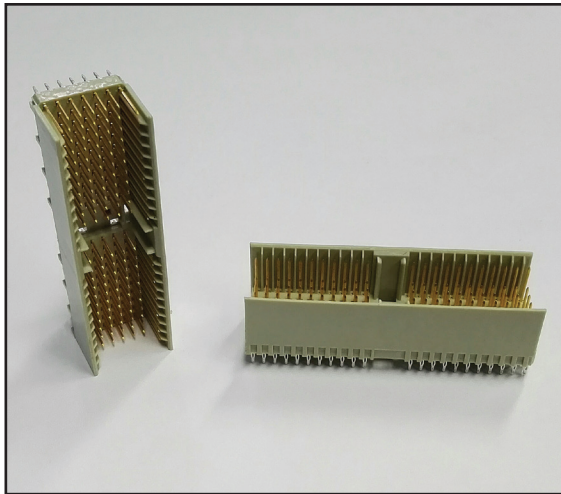


3M™ CP2 Press-Fit Header

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 for compliance information (RIA E1 & C1 apply)

Date Modified: August 5, 2015

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Sheet 1 of 5

Physical

Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL94V-0

Contact:

Material: Copper Alloy

Plating: See Ordering Information

Mechanical

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

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

Mating and Un-mating Operations: 200 for KR plating

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: $\text{O} 0.6\pm 0.05\text{ mm}$

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

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

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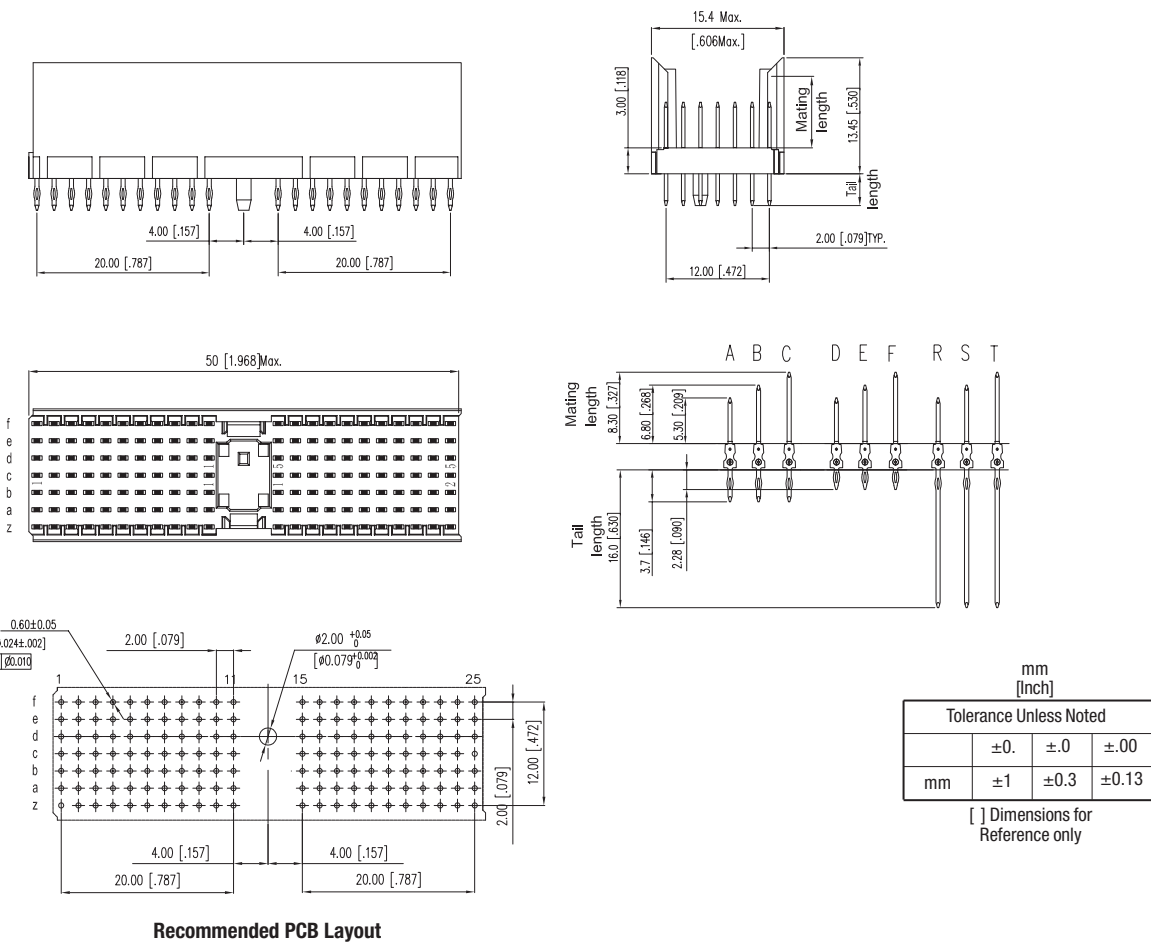
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3M™ CP2 Press-Fit Header

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.

TS-2265-C
Sheet 2 of 5



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3M™ CP2 Press-Fit Header

2 mm Type A 110 Signal Contacts

CP2 Series

CP2-HA110-E1-TG30											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	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																			
Z																														
	1	2	3	4	5	6	7	8	9	10	11																			

CP2-HA110-GE1-TG30											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	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																			
Z	C	C	C	C	C	C	C	C	C	C	C																			
	1	2	3	4	5	6	7	8	9	10	11																			

CP2-HA110-A1-TG30											Connector Type A22																			
F																														
E	B	B	B	B	B	B	B	B	B	B	B																			
D	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																			
A	B	B	B	B	B	B	B	B	B	B	B																			
Z																														
	1	2	3	4	5	6	7	8	9	10	11																			

CP2-HA110-GA1-TG30											Connector Type A22																			
F	C	C	C	C	C	C	C	C	C	C	C																			
E	B	B	B	B	B	B	B	B	B	B	B																			
D	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																			
A	B	B	B	B	B	B	B	B	B	B	B																			
Z	C	C	C	C	C	C	C	C	C	C	C																			
	1	2	3	4	5	6	7	8	9	10	11																			

3M™ CP2 Press-Fit Header

2 mm Type A 110 Signal Contacts

CP2 Series

CP2-HA110-D1-TG30											Connector Type A22																							
F																																		
E	A	A	A	A	A	A	A	A	A	A												A	A	A	A	A	A	A	A	A	A	A	A	A
D	B	B	A	A	A	A	A	A	A	A												A	A	A	A	A	A	A	A	A	A	A	B	B
C	C	C	A	A	A	A	A	A	A	A												A	A	A	A	A	A	A	A	A	A	C	C	
B	B	B	A	A	A	A	A	A	A	A												A	A	A	A	A	A	A	A	A	A	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											15	16	17	18	19	20	21	22	23	24	25		

CP2-HA110-GB1-TG30											Connector Type A22																							
F	C	C	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	B	
D	B	B	B	B	B	B	B	B	B	A												B	B	B	B	B	B	B	B	B	B	B	B	
C	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	
A	B	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	C	
	1	2	3	4	5	6	7	8	9	10	11											15	16	17	18	19	20	21	22	23	24	25		

CP2-HA110-GC1-TG30											Connector Type A22																							
F	C	C	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	B	
D	B	B	C	B	B	B	C	B	C	B												C	B	C	B	C	B	C	B	C	B	C	B	
C	B	C	B	C	B	B	B	B	B	B												B	B	B	B	B	C	B	C	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	
A	B	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	C	
	1	2	3	4	5	6	7	8	9	10	11											15	16	17	18	19	20	21	22	23	24	25		

CP2-HA110-GA4-GG30											Connector Type A22																						
F	T	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	R
D	R	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	R
B	R	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	R
Z	T	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											15	16	17	18	19	20	21	22	23	24	25	

Signal Contact Configuration Worksheet											Connector Type A22																							
F																																		
E																																		
D																																		
C																																		
B																																		
A																																		
Z																																		
	1	2	3	4	5	6	7	8	9	10	11																							

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					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		
C	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		
Z																										
	1	2	3	4	5	6	7	8	9	10	11					15	16	17	18	19	20	21	22	23	24	25

CP2-HA110-GF1-KR

Connector Type A22

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					15	16	17	18	19	20	21	22	23	24	25

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