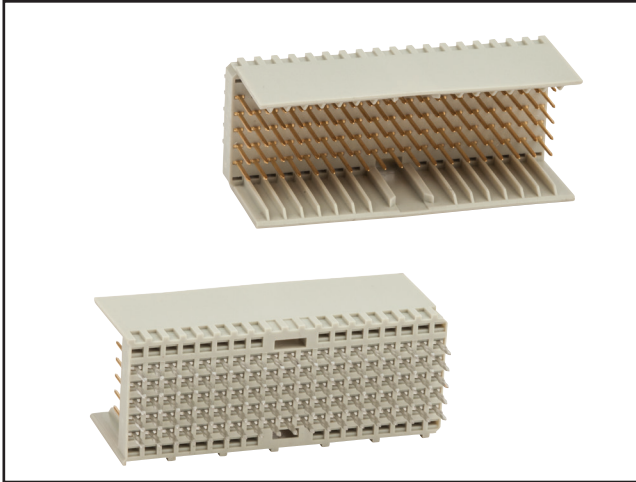


3M™ CP2 Press-Fit Header

2 mm Type AB, 95, 110 and 125 Signal Contacts

CP2 Series



- 25 mm basic system unit
- 38, 44 and 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 (RIAE1 & C1 apply)

Date Modified: July 16, 2015

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Sheet 1 of 7

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

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



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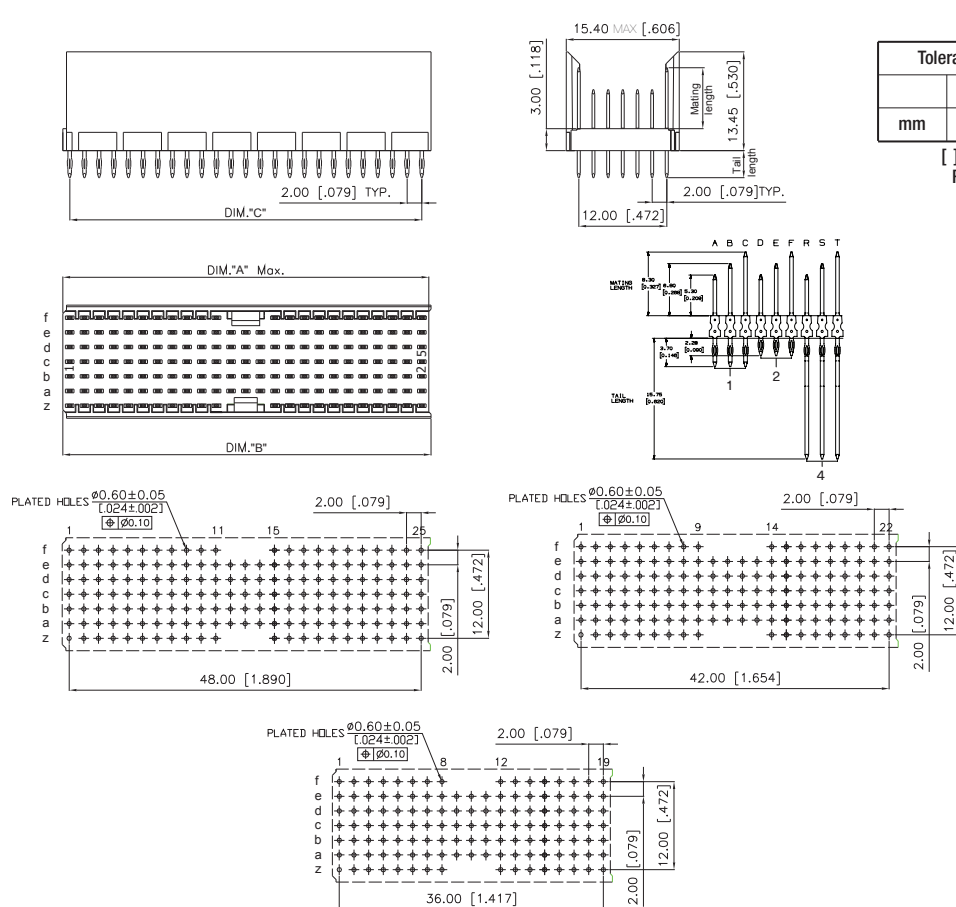
800-225-5373

3M™ CP2 Press-Fit Header

2 mm Type AB, 95, 110 and 125 Signal Contacts

CP2 Series

Signal Contact Quantity	Dimension A	Dimension B	Dimension C
95	38.00 [1.496]	38.30 [1.508]	36.00 [1.417]
110	44.00 [1.732]	44.30 [1.744]	42.00 [1.653]
125	50.00 [1.968]	50.30 [1.980]	48.00 [1.890]



Tolerance Unless Noted			
mm	±0.	±0.	±0.00
mm	±1	±0.3	±0.13

[] Dimensions for Reference only

RECOMMENDED PCB LAYOUT

Ordering Information

CP2-HABXXX-XXX-XXXX

Number of Signal Contacts
095,110 and 125

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 7

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3M™ CP2 Press-Fit Header

2 mm Type AB, 95, 110 and 125 Signal Contacts

CP2 Series

CP2-HAB095-E1-TG30

Connector Type B19

F																			
E	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
C	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
Z																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

CP2-HAB095-GE1-TG30

Connector Type B19

F	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
D	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
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
Z	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	12	13	14	15	16	17	18	19

CP2-HAB095-A1-TG30

Connector Type B19

F																			
E	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
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
A	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	12	13	14	15	16	17	18	19

CP2-HAB095-GA1-TG30

Connector Type B19

F	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	
D	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	
A	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	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

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Sheet 3 of 7



3M™ CP2 Press-Fit Header

2 mm Type AB, 95, 110 and 125 Signal Contacts

CP2 Series

CP2-HAB095-GA4-GG30

Connector Type B19

F	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
D	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
B	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
Z	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	12	13	14	15	16	17	18	19

Signal Contact Configuration Worksheet

Connector Type B19

F																			
E																			
D																			
C																			
B																			
A																			
Z																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

CP2-HAB110-E1-TG30

Connector Type B22

F																			
E	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
C	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
Z																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

CP2-HAB110-GE1-TG30

Connector Type B22

F	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
D	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
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
Z	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	12	13	14	15	16	17	18	19

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3M™ CP2 Press-Fit Header

2 mm Type AB, 95, 110 and 125 Signal Contacts

CP2 Series

CP2-HAB110-A1-TG30

Connector Type B22

F																						
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	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	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																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

CP2-HAB110-GA1-TG30

Connector Type B22

F	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	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	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
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

CP2-HAB110-GA4-GG30

Connector Type B22

F	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
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

Signal Contact Configuration Worksheet

Connector Type B22

F																						
E																						
D																						
C																						
B																						
A																						
Z																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

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3M™ CP2 Press-Fit Header

2 mm Type AB, 95, 110 and 125 Signal Contacts

CP2 Series

CP2-HAB125-E1-TG30

Connector Type B25

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	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	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	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	A	A	A	A	A	A	A	A	A	A
Z																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	

CP2-HAB125-GE1-TG30

Connector Type B25

F	B	B	B	B	B	B	B	B	B	B	B				B	B	B	B	B	B	B	B	B	B	B	B
E	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
D	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
C	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
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	A	A	A	A	A	A	A	A	A	A
Z	B	B	B	B	B	B	B	B	B	B	B				B	B	B	B	B	B	B	B	B	B	B	B
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	

CP2-HAB125-A1-TG30

Connector Type B25

F																										
E	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
D	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
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	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	B	B	B	B
Z																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	

CP2-HAB125-GA1-TG30

Connector Type B25

F	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	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	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	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	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	12	13	14	15	16	17	18	19	20	21	22	23	24	25

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3M™ CP2 Press-Fit Header

2 mm Type AB, 95, 110 and 125 Signal Contacts

CP2 Series

CP2-HAB125-GA4-GG30														Connector Type B25											
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	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	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	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	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	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	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Signal Contact Configuration Worksheet											Connector Type B25														
F																									
E																									
D																									
C																									
B																									
A																									
Z																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

TS-2263-B
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[8125/17](#) [813216](#) [8204-3LFM](#) [8425-8](#) [MNG14BCX](#) [FP301-1-6"-Clear](#) [FV14-6C](#) [920102-01-25-R](#) [927739-40](#) [929835-01-28-RK](#)
[929974-01-40-R](#) [951240-2520-AR-PR](#) [960X/980X](#) [98-0003-3075-7](#) [HF365/16SF](#) [HF36564-100](#) [HF625/26-30](#) [1/2-5-4492W](#) [1/2-5-5430](#) [1/2-](#)
[5-850S](#) [1/2-5-3431](#) [12X12-6-4056B](#) [12X12-6-433](#) [12X12-6-4930](#) [1311](#) [13-500-NB](#) [14526-EZ5B-300-02C](#) [1-4-4658F](#) [14520-EZAB-300-](#)
[0EC](#) [DSTK9013-3420](#) [DSTK9015-3402](#) [14T26-SZLB-200-0LC](#) [14T50-SZWB-100-0NC](#)