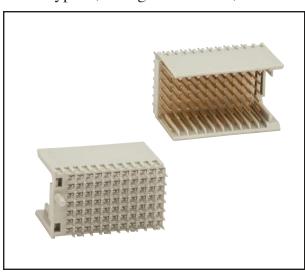
3M[™] CP2 Press-Fit Header

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

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Physical

Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL94V-0

Contact:

Material: Copper Alloy

Plating: See Ordering Information

Mechanical

Mating Force: ≤0.75N/PIN Withdrawal Force: ≥0.15N/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: $750 \text{ VAC}_{\text{RMS}}$

Environmental

Temperature Ratings: -55°C to +125°C

PCB Data

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

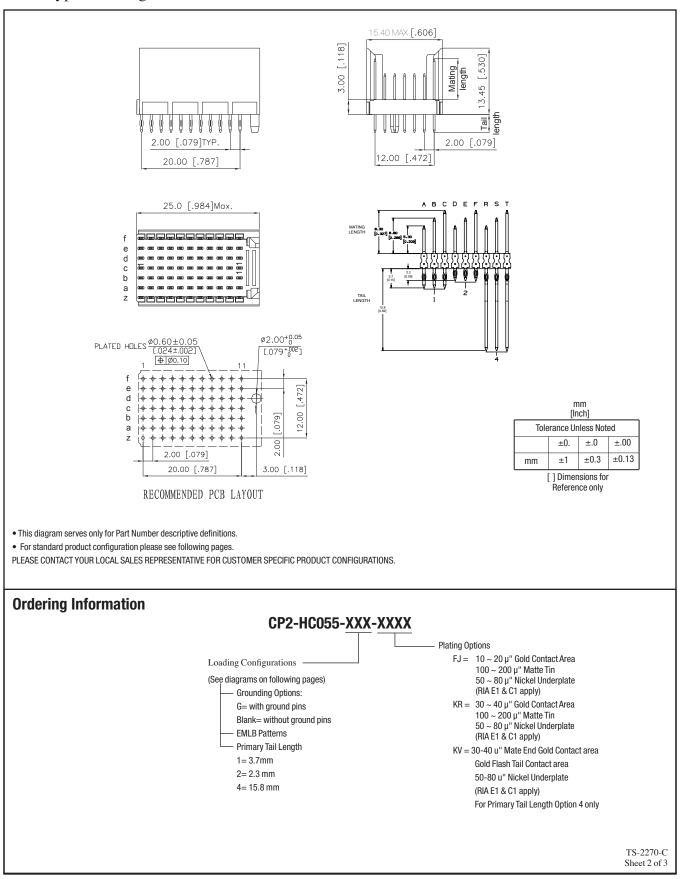
Drill hole diameter $\Theta 0.7 \pm 0.02 \text{ mm}$

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: ≤ 204N/pin on nominal hole diameter Retention Force: ≥ 13.5N/pin on nominal hole diameter

2 mm Type C, 55 Signal Contacts, Left Guidance



 $2\ mm\ Type\ C, 55\ Signal\ Contacts, Left\ Guidance$

CP2-	CP2-HC055-E1-TG30 Connector Type CL1													
F														
E	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α			
D	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α			
C	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α			
В	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α			
Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α			
Z														
	1	2	3	4	5	6	7	8	9	10	11			

CP2-	HC055	necto	nector Type CL11								
F	С	С	С	С	С	С	С	С	С	С	С
E	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
D	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
С	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
В	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
z	С	С	С	С	С	С	С	С	С	С	С
	1	2	3	4	5	6	7	8	9	10	11

CP2-	CP2-HC055-A1-TG30 Connector Type CL1													
F														
E	В	В	В	В	В	В	В	В	В	В	В			
D	В	В	В	В	В	В	В	В	В	В	В			
C	В	В	В	В	В	В	В	В	В	В	В			
В	В	В	В	В	В	В	В	В	В	В	В			
Α	В	В	В	В	В	В	В	В	В	В	В			
z														
	1	2	3	4	5	6	7	8	9	10	11			

CP2-	CP2-HC055-GA1-TG30 Connector Type CL1													
F	С	С	С	С	С	С	С	С	С	С	С			
E	В	В	В	В	В	В	В	В	В	В	В			
D	В	В	В	В	В	В	В	В	В	В	В			
С	В	В	В	В	В	В	В	В	В	В	В			
В	В	В	В	В	В	В	В	В	В	В	В			
Α	В	В	В	В	В	В	В	В	В	В	В			
Z	С	С	С	С	С	С	С	С	С	С	С			
	1	2	3	4	5	6	7	8	9	10	11			

Sign	Signal Contact Configuration Worksheet													
F														
Е														
D														
C														
В														
Α														
Z														
	1	2	3	4	5	6	7	8	9	10	11			

CP2-	CP2-HC055-GA4-GG30 Connector Type CL1													
F	Т	Т	Т	Т	Т	T	Т	Т	T	Т	Т			
E	R	R	R	R	R	R	R	R	R	R	R			
D	R	R	R	R	R	R	R	R	R	R	R			
С	R	R	R	R	R	R	R	R	R	R	R			
В	R	R	R	R	R	R	R	R	R	R	R			
Α	R	R	R	R	R	R	R	R	R	R	R			
Z	Т	T	Т	Т	T	T	Т	T	T	T	Т			
	1	2	3	4	5	6	7	8	9	10	11			

CP2-	HC055	-F1-KI	R					Con	necto	Туре	CL11
F											
E	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
D	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
C	В	В	В	В	В	В	В	В	В	В	В
В	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Z											
	1	2	3	4	5	6	7	8	9	10	11

CP2-	HC055	-GF1-	KR					Con	necto	Туре	CL11
F	С	С	С	С	С	С	С	С	С	С	С
E	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
D	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
C	В	В	В	В	В	В	В	В	В	В	В
В	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Z	С	С	С	С	С	С	С	С	С	С	С
	1	2	3	4	5	6	7	8	9	10	11

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