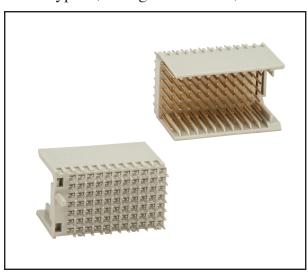
# 3M<sup>™</sup> CP2 Press-Fit Header

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<sup>™</sup> HSHM, UHM and CP2 Sockets
- End to end stackable with 5 row 3M<sup>™</sup> 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:  $\Theta 0.6 \pm 0.05 \text{ mm}$ 

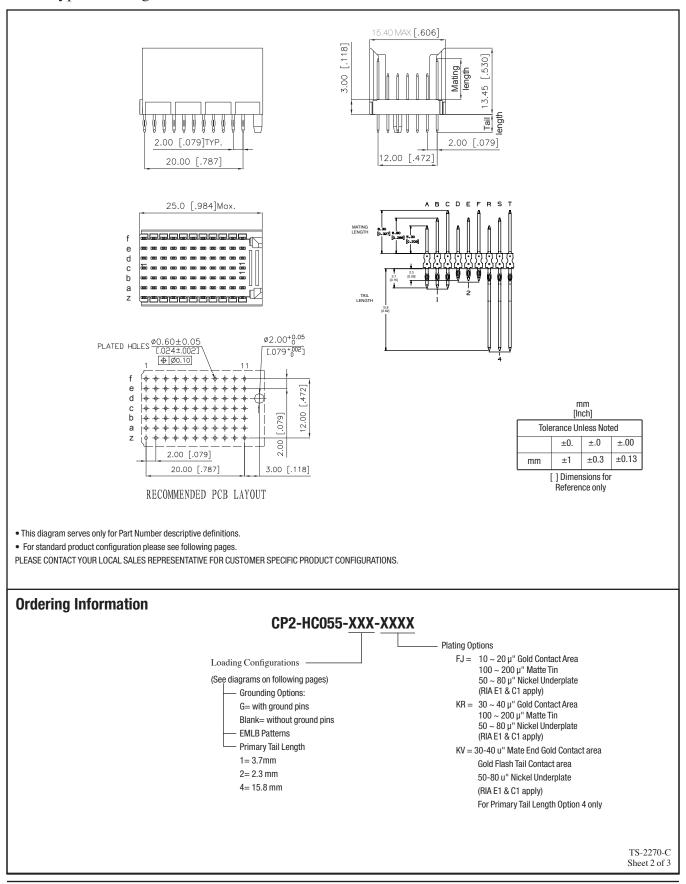
Drill hole diameter  $\Theta 0.7 \pm 0.02 \text{ mm}$ 

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 CL11														
F															
E	Α	Α	Α	А	А	Α	Α	Α	Α	Α	А				
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-	CP2-HC055-GE1-TG30 Connector Type CL1													
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-	HC055	-A1-T	Connector Type CL11								
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 Cl													
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														
E														
D														
C														
В														
Α														
Z														
	1	2	3	4	5	6	7	8	9	10	11			

CP2-	CP2-HC055-GA4-GG30 Connector Ty													
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	Т	T	Т	T	T	Т	Т			
	1	2	3	4	5	6	7	8	9	10	11			

CP2-	HC055	-F1-KI	Connector Type 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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