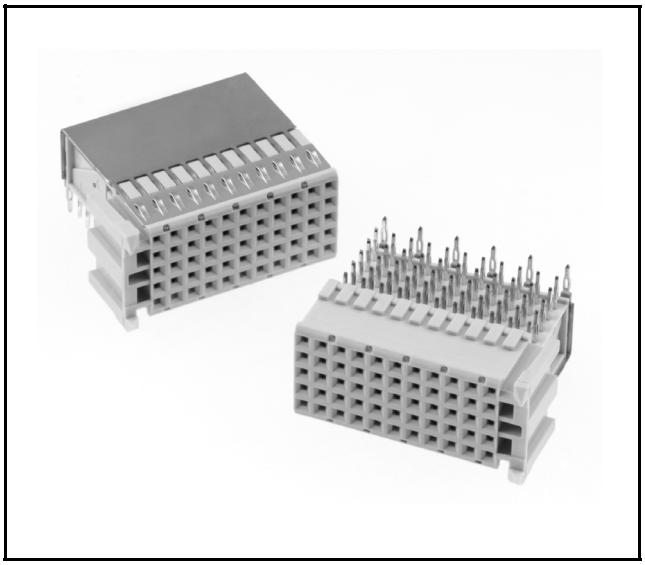
# 3M™MetPak™ CP2 Press-Fit Socket

2 mm Type C, 55 Signal Contacts, Left Guidance, Right Angle CP2 Series



- 25 mm basic system unit
- 25 mm module
- CompactPCI® combines the benefits of PCI desktop architecture with the ruggedness of the 3U and 6U IEEE Eurocard form factor popularized by the VME bus
- Designed according to IEC 61076-4-101 and IEC 917 standards
- 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
- Additional grounding rows available for improved ground bounce and EMI immunity
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: April 11, 2007



## Physical

| | |
|---|---|
| **Insulation** | |
| Material: | Glass Filled Polyester (PBT) |
| Flammability: | UL 94 V-0 |
| **Contact Material:** | Copper Alloy |
| **Plating** | |
| Underplate: | 50 µ" [ 1.27 µm ] Nickel |
| Wiping Area: | 30 µ″ [ 0.76 µm ] Gold |
| Terminal Area: | 100 µ" [ 2.54 µm ] Tin Lead |

## Mechanical

| | |
|---|---|
| **Mating Force:** | 0.75 N/contact maximum |
| **Withdrawal Force:** | 0.15 N/contact minimum |

## Electrical

| | |
|---|---|
| **Insulation Resistance:** | 10G Ω (Minimum) |
| **Current Ratings:** | 1A at +70°C |
| **Test Voltage:** | 750 $V_{AC}$ |

## Environmental

| | |
|---|---|
| **Temperature Ratings:** | -55°C to +125°C |

## PCB Data

| | |
|---|---|
| **Recommended PCB hole platings:** | Cu: .0250 - .050 mm [.001 - .002 in.] and Sn or Sn/Pb: <10 µm [400 µ"] |
| **PCB thickness:** | 1.4 - 5.6 mm [.06 - .22 in.] |
| **Press-In Force:** | 26 ± 6N/pin on nominal hole diameter Ø 0.6 ± 0.05 mm [Ø .024 ± .002 in.] |
| **Retention Force:** | 20 ± 5N/pin on nominal hole diameter Ø 0.6 ± 0.05 mm [Ø .024 ± .002 in.] |

UL File No.: E68080

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MetPak is a trademark of 3M Company.



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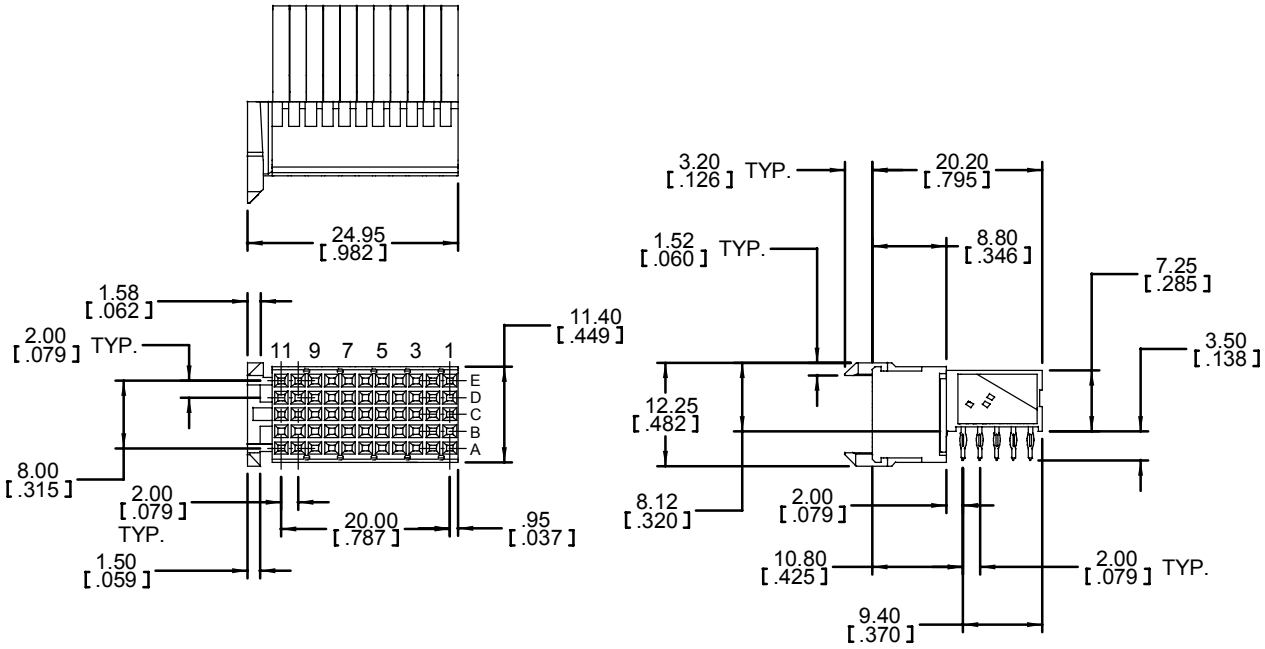


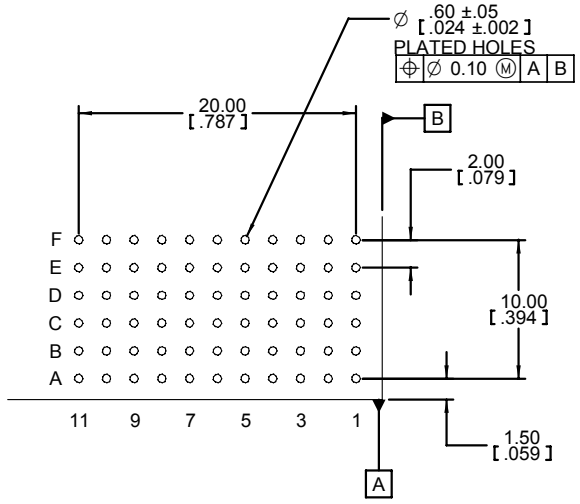


Recommended PCB hole mounting pattern
Connector side

mm
[inch]

| Tolerance Unless Noted | | | |
|---|---|---|---|
| | .0 | .00 | .000 |
| mm | ±2.5 | ±.25 | ±.025 |

[ ] Dimensions for Reference Only

## Ordering Information

**CP2 - SC055 - X1-TG30**

Shield Options:
G = Upper Shield
Blank = No Shield

Wiping Area = Gold plating
Press-Fit Tails = Tin-Lead plating
(RIA E2 & C2 apply)

**Lower Shield** (Order Separately)

**CP2-GSC-L**

Tin-Lead plated contacts
(RIA E2 & C2 apply)



3M
**Interconnect Solutions**
http://www.3M.com/interconnects/

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**800-225-5373**

Regulatory Information Appendix
3M Electronic Solutions Division/Interconnect

EUROPE

## Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product is RoHS Compliant 2005/95/EC.**

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

## Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC

**This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.**

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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## Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

**This product contains lead in the solder tail area in excess of the maximum concentration value allowed.**

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

## Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/17/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

CHINA

## Appendix C1: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

## Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

| 部件名称 (Part or Component Name) | 有毒有害物质或元素 (Hazardous Substances or Elements) | | | | | |
|---|---|---|---|---|---|---|
| | 铅(Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 端子镀层(contact plating) | × | ○ | ○ | ○ | ○ | ○ |

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

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LifeElectronics
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