

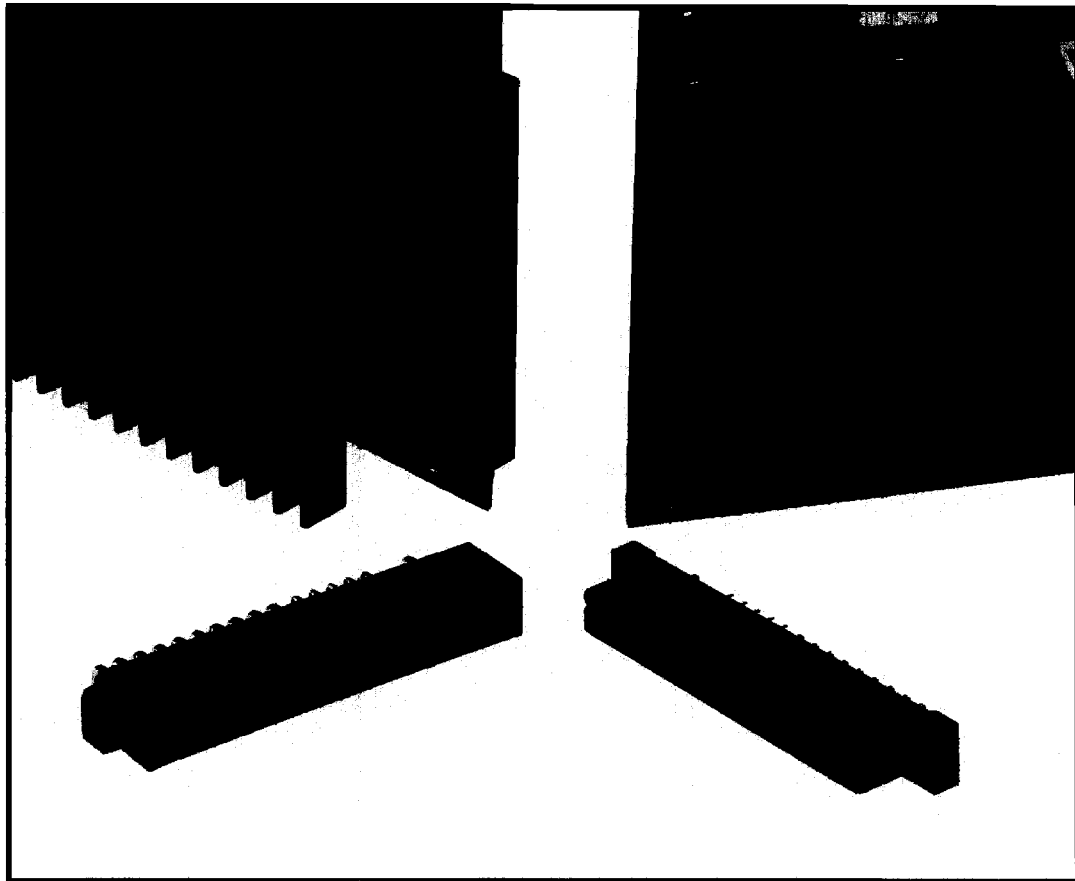


Positronic Industries
Introduces.



Compact Power Connector

Designed for use in EuroRack Packaging



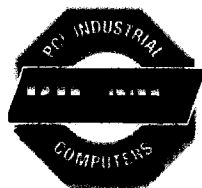
Outstanding Features

- *Capacity to meet expanding power requirements.*
- *Three level sequential mating for hot swapping*.*
- *AC/DC operation within a single connector.*
- *Line and neutral are 5 mm recessed.*
- *Superior blind mate capability.*
- *Sized for EuroRack applications.*

Positronic's new Compact Power connector is the state-of-the-art choice for architectures which utilize EuroRack packaging. These include: Compact PCI®, VME, VXI, FutureBus, MultiBus II and others.

The Compact Power connector is engineered for use in applications where system requirements have exceeded the performance capabilities of commonly used interconnects.

Positronic Industries is proud to be an executive member of PCI Industrial Computers Manufacturers Group.



PICMG® and the PICMG® logo are registered trademarks of the PCI Industrial Computers Manufacturers Group.

* Not intended as a power interrupt device. To be used in systems that require signal level sensing to provide for power down before disconnect.

Technical Characteristics

MATERIALS AND FINISHES:

Insulator: Glass filled polyester, UL 94V-0.
Contacts: Precision machined copper alloy with 0.25 microns (0.000010 inch) gold over nickel. Other plating options available. Consult factory.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating:
 Power Contact, Size 16 20 amperes.
 Signal Contact, Size 20 Up to 7.5 amperes.

Initial Contact Resistance:
 Power Contact, Size 16 0.003 ohms max. per IEC 512-2, Test 2b.
 Signal Contact, Size 20 0.008 ohms max. per IEC 512-2, Text 2b.

Insulation Resistance: 5 G ohms per IEC 512-2, Test 3a, Method A.

Voltage Proof: 1200 V r.m.s. min.

Creepage Distance:
 AC pos 38 to AC pos 37 3.4 (0.134) min.
 AC pos 37 to Signal 7.6 (0.299) min.
 AC pos 36 to Signal 2.7 (0.106) min.
 Signal to DC power 1.2 (0.049) min.

Working Temperature: -55°C to +125°C.

Working Voltage: 300 VAC

Sequential Mating System:
 Position 36: first to mate.
 Position 22, 25, 28: last to mate.
 All other positions: second to mate.

MECHANICAL CHARACTERISTICS:

Signal Contacts, Printed Board Mount:
 Size 20 male contact \varnothing 1.02mm (0.040 inch) with \varnothing 0.71mm (0.028 inch) 90° termination.
 Size 20 female contact \varnothing 0.71mm (0.028 inch) straight termination.

Power Contacts, Printed Board Mount:
 Size 16 male contact \varnothing 1.57mm (0.062 inch) with \varnothing 1.60mm (0.063 inch) 90° termination.
 Size 16 female contact \varnothing 1.60mm (0.062 inch) straight termination.
 Supplied with Large Surface Area Mating system.

Contact Retention in Insulator: 26N (6 lbs.)

Contact Insertion and Withdrawal Forces: 2.2N (8 oz.) nominal per contact.

Polarization: Provided in insulator design.

Mounting to Printed Board: # 4 self-tapping screws.

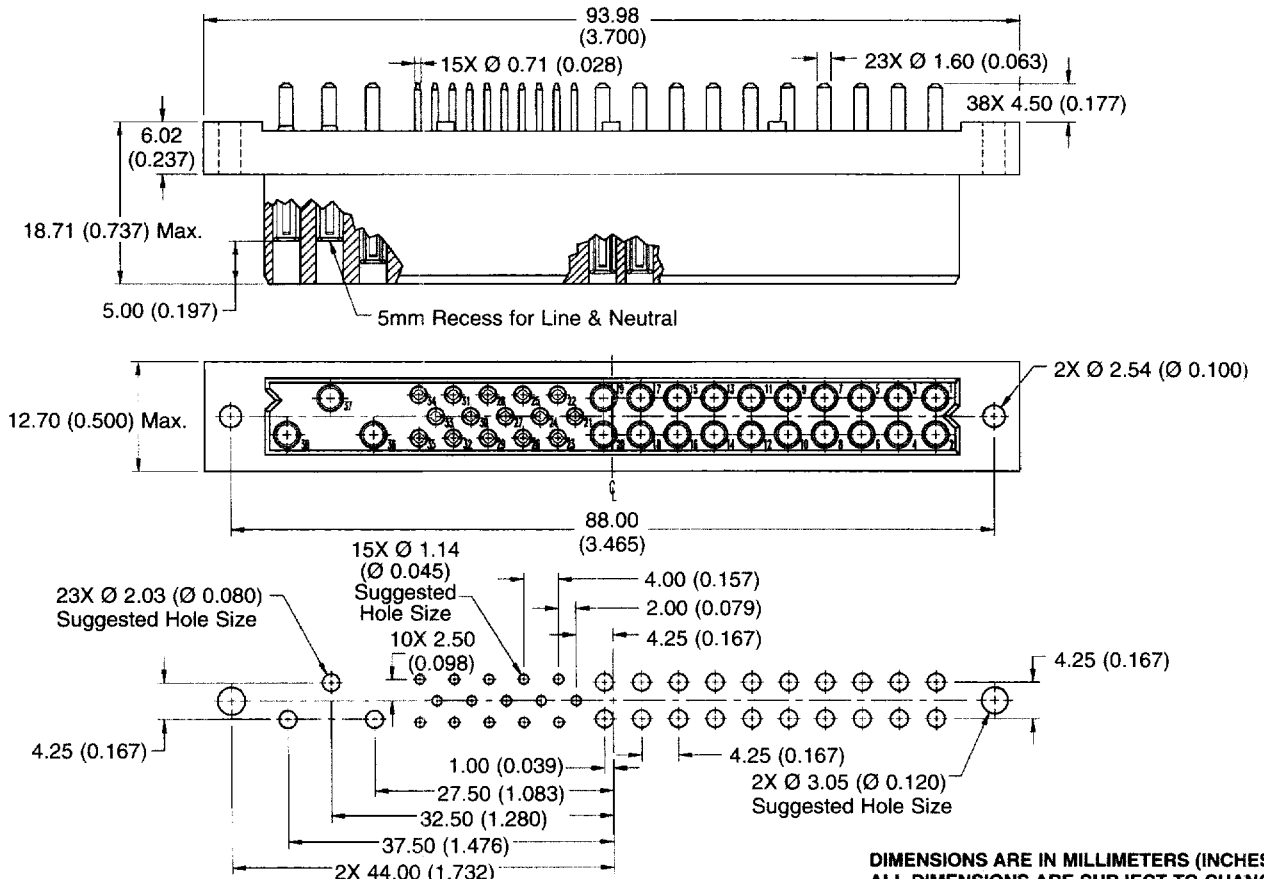
Mechanical Operations: 200 operations per IEC 512-5.

Unless otherwise specified, dimensional tolerances are:
 1) ± 0.001 inches (0.03 mm) for male contact mating diameters.
 2) ± 0.003 inches (0.08 mm) for contact termination diameters.
 3) ± 0.005 inches (0.13 mm) for all other diameters.
 4) ± 0.015 inches (0.38 mm) for all other dimensions.

UL and CSA recognition in process.

Backplane Connector

PCI38F300A1

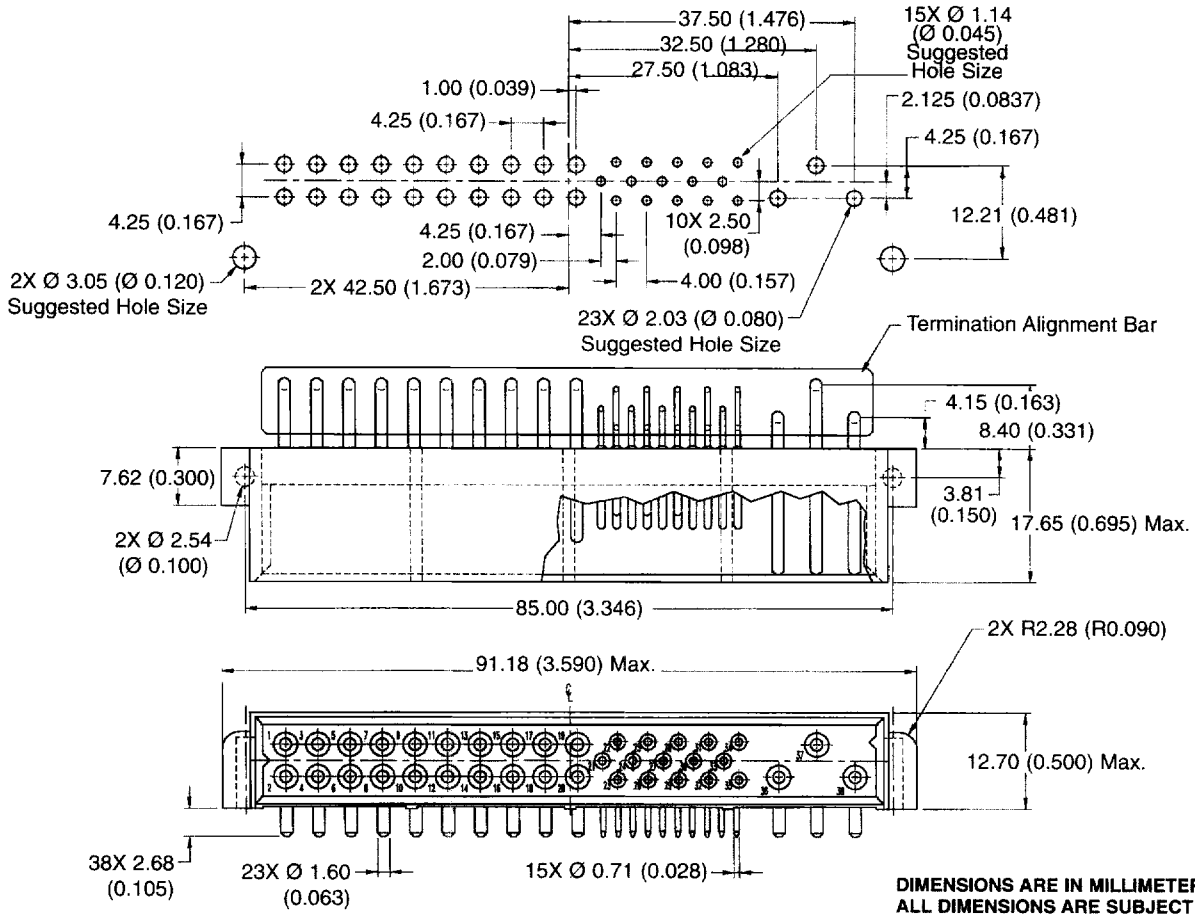


DIMENSIONS ARE IN MILLIMETERS (INCHES).
 ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Printed Board Contact Hole Pattern

Power Supply Connector

PCI38M400A1

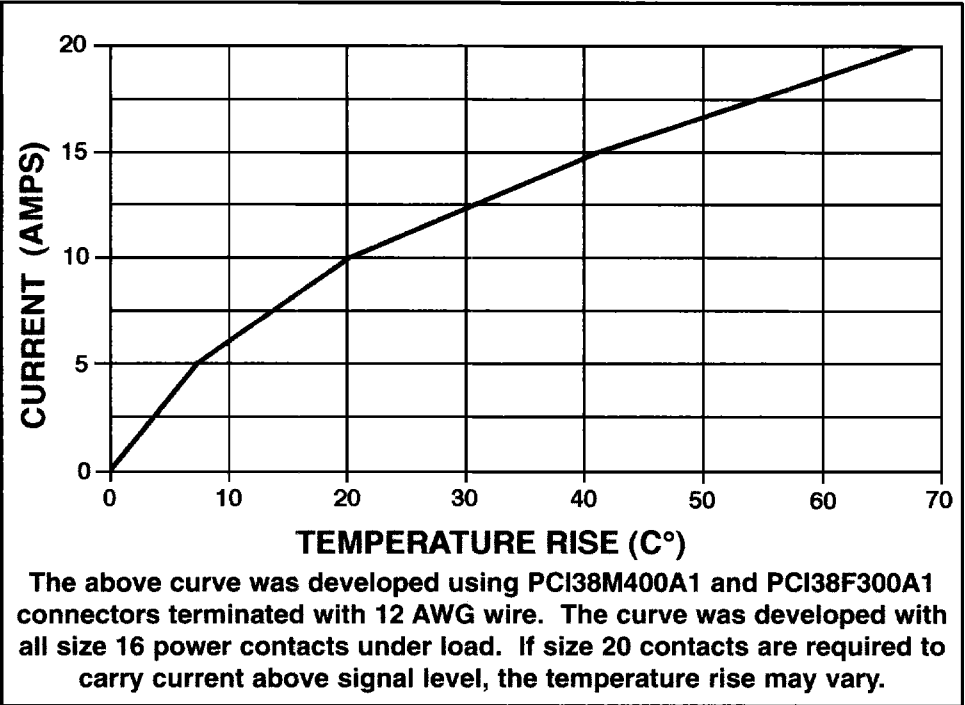


DIMENSIONS ARE IN MILLIMETERS (INCHES). ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Printed Board Contact Hole Pattern

Temperature Rise Curve

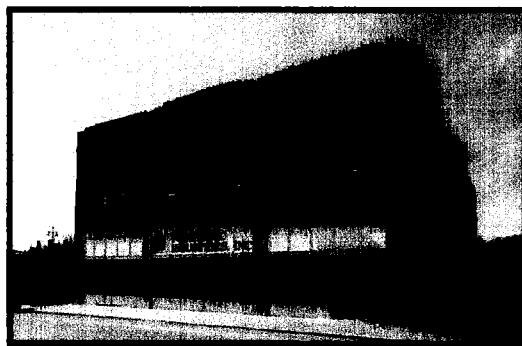
Tested Per IEC Publication 512-3, Test 5a



Positronic Industries



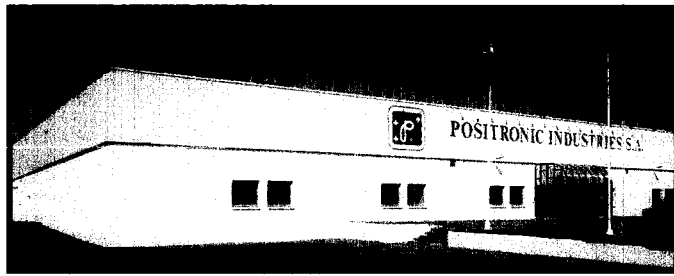
Company Headquarters



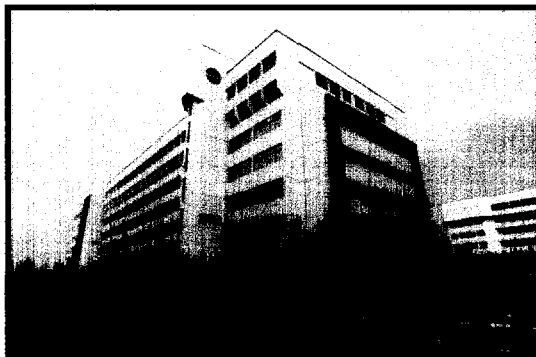
Mt. Vernon Facility



Puerto Rico Facility



French Facility



Singapore Facility

Positronic's Mission:

To present interconnect solutions through product flexibility and application assistance which will represent value to customers around the world.

Positronic's mission has been the same since 1966 when the company was founded by Jack T. Gentry.

Today, Positronic Industries has 55 sales offices and employs 750 people in its seven factory locations world wide. With complete manufacturing capability and prompt customer support, Positronic is able to supply leading edge, high reliability interconnect systems to the Electronics Industry. Our desire and dedication to fulfill customer needs will keep the Positronic mission strong as we move into the 21st century.

Contact us today to receive information about solution oriented connector products.

POSITRONIC INDUSTRIES, INC.

423 N. Campbell Ave. • P.O. Box 8247 • Springfield, MO 65801
Telephone 417-866-2322 • FAX 417-866-4115 • TOLL FREE 800-641-4054
E-MAIL: info@positronic.com • www.positronic.com

POSITRONIC INDUSTRIES, SA.

Zone Industrielle Est. • 46 Route d'Engachies • F-32020 Auch Cedex 9 • France
Téléphone 05 62 63 44 91 • Télécopieur 05 62 63 51 17

POSITRONIC ASIA PTE LTD.

3014A UBI ROAD 1 #06-07 • SINGAPORE 408703
Telephone (65)-842-1419 • FAX (65)-842-1421
E-MAIL: posiasia@singnet.com.sg

