

## WEITRONIC 2.0mm Hard Metric Connector Series

### Overview

WEITRONIC 2.0mm HARD METRIC CONNECTOR MODULES comply with international IEC 917 and IEC 61076-4-101 standards. The connector systems in telecommunication and other industries require high density connectors to support larger amounts of data increasingly higher speeds WEITRONIC 2mm hard metric modules offer the solution.

## Features and Benefits

- ¥ This high density connector modules can be stacked end to end without loss of space.
- ¥ WEITRONIC developed the 2.0mm series under thorough consideration of impedance match, propagation delay, cross talk, reflection. It is the ideal connector for digital high speed data application.
- ¥ WEITRONIC offers different types with inverted mating configuration. The male connector is a fixed module at the backplane and the female connector is a free component of the plug-in module. The male connector has 5 signal row.
- ¥ The outer shielding rows z and f of the male connector engage the shielding contacts of the female connector. the shield is also designed for gas tight, press-fit installation.
- ¥ The connector system offers 15 contact length that utilize the proven press-fit assembly technique. Within the 15 contact length are 3 mating levels, achievable on both the plug-in and rear I / O side.
- ¥ Coding system prevents mix-up and wrong mating between male and female connectors.
- ¥ The 2.0mm hard metric connectors and DIN 41612 connectors can be used on the same PC board as both have the same mating distance.
- ¥ Staggered make-break pin populations for optional hot-swap capability.
- ¥ Rear pin option for through-the-backplane I/O application.
- ¥ High density PCI capability, shield for EMI/RFI protection.

## Mechanical and Electrical Characteristics

### Technical Data

Grid Size	2.0mm
Operating temperature	-55°C to +125°C
Insulation Material	Glass filled Polyester, UL94V-0
Contact Material	Phosphor Bronze
Air and Creepage Distance	Male 0.8mm, Female 0.6mm
Contact Levels	5.3mm-Level 1 6.8mm-Level 2 8.3mm-Level 3
Press-in force	100N/pin Max.
Retention force	20N/pin Min.
Mating Force per Signal Contact	N x 0.75N Max
Mating Force per Shield Contact	N x 1N Max
Withdrawal Force	0.15N Min.
Termination Technique Misalignment	Compliant Press-Fit Longitudinal -2.0mm Latitudinal -2.5mm
Inclination	-2 degree
Current Rating	1.5A AT 20 C, 1.0A AT 70 C
Test Voltage	750 Vrms
Contact Resistance	20mΩ Max.
Insulation Resistance	10 <sup>10</sup> Ω Min.

### Recommended P.C.B Plated Through Holes

Drilled Hole	∅0.69-0.72 mm
Cu	Min. 25μm
Sn	5-15μm
Plated Through Hole	∅0.55-0.65 mm

Longitudinal Section of P.T.H.  
With Twinap Press-Fit Pin

