

XRJB/XMB RJ45/USB CONNECTORS

FEATURES:

- RJ45 and USB Combo Connectors
- Available with 1 or 2 USB
- Through Hole Contacts
- Available with or without LEDs for Easy Viewing of Connection/Activity Status
- Optional USB 2.0 or USB 3.0 Compliance
- Available in Shield or Unshielded
- Minimum of 750 to 1000 Insertion Cycles
- Applications Include: Desktop PC, Server, Hub, Switch, LCD TV, STB, Amplifier, AV Center, POS, Printer, Projector, Camera Systems



GENERAL SPECIFICATION:

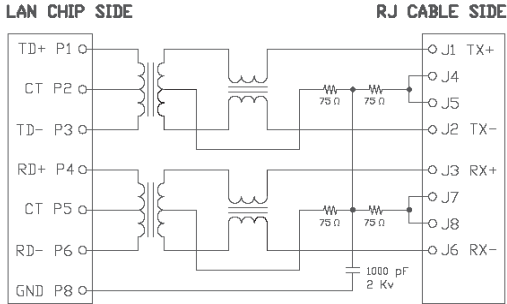
| Product Type Features | | Housing Related Features | |
|---------------------------|--------------------------|--------------------------|-------------------|
| Tab Type | Tab Up | Material | PBT / Nylon / LCP |
| PCB Mount Angle | Side Entry (Right Angle) | Housing Flammability | UL 94V-0 |
| Number of Ports | Optional | Color | Optional |
| Number of Positions | 8 | Contact Features | |
| Number of Contacts | Optional | Material | Phos-Bronze |
| PCB Mount Style | Through Hole | Contact Area Plating | Hard Gold |
| LED | With or Without | Solder Area Plating | Tin/Gold Flash |
| Transformer | With and Without | Magnetic Features | |
| Shielding Features | | Transformer Speed | 10/100/1000 Mbps |
| Material | Copper Alloy / SUS | | |
| Plating | Nickel | | |
| EMI Fingers | With or Without | | |
| Number of PCB Ground Tabs | Optional | | |
| Ground Pin Position (mm) | Optional | | |

ORDERING INFORMATION:

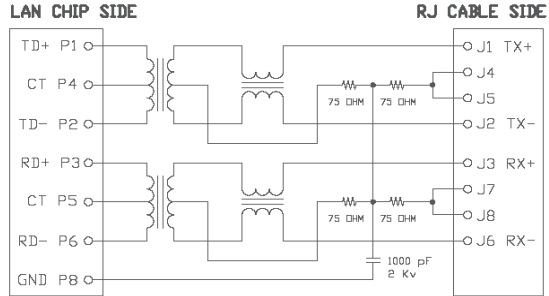
| PART NO. X | PORT NO. X | Length X | Width X | Height X |
|--------------------|--------------------------|----------|----------|----------|
| XRJB/XMB-G6-88-X | 1 RJ / 1 USB Port | Optional | Optional | Optional |
| XRJB/XMB-G7-88-X | 1 RJ / 2 USB Port | Optional | Optional | Optional |
| XRJB/XMB-H67-8-8-X | 1 RJ / 1 USB Type B Port | Optional | Optional | Optional |

10/100 Mbps SCHEMATICS

D12:



D22:

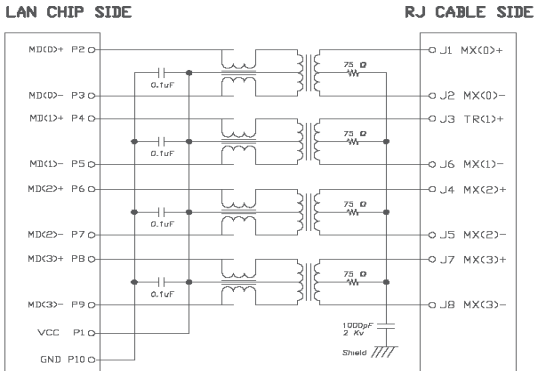


10/100 Mbps MHz Electrical Specification @25degree C

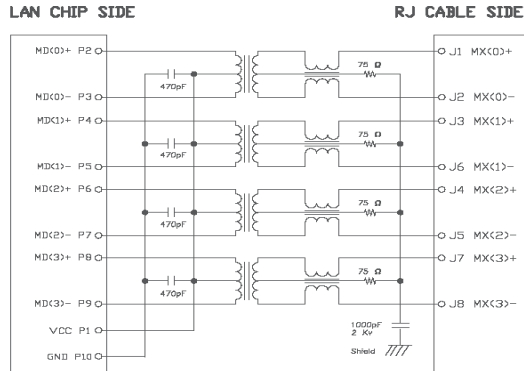
| Item | TR | LX | DCR | Hi-Pot | Ins.Loss | Return Loss | | | Cross Talk | Com.Mode Rejection |
|--------------------|--------|---------------|-----------------|------------------|-------------|-------------|-----------|-----------|------------|--------------------|
| Part Number | | 100KHz, 100mV | (Every RJ Pair) | Input to Output | 0.3-100 MHz | 1-30 MHz | 30-60 MHz | 60-80 MHz | 1-100MHz | 1-100MHz |
| XRJB/XMB-G6-88-X | 1:1+3% | 350 uH Min | 1,2ohm Max | 1500VAC for 60s | -1.0dB Max | -20dB Min | -15dB Min | -10dB Min | -30dB Min | -30dB Min |
| XRJB/XMB-G7-88-X | 1:1+3% | 350 uH Min | 1,2ohm Max | 1500VAC for 60s | -1.0dB Max | -20dB Min | -15dB Min | -10dB Min | -30dB Min | -30dB Min |
| XRJB/XMB-HXX-X-X-X | 1:1+3% | 350 uH Min | 1,2ohm Max | 1500VAC for 60 s | -1.0dB Max | -20dB Min | -15dB Min | -10dB Min | -30dB Min | -30dB Min |

10/100/1000 Mbps SCHEMATICS:

H23:



H3K:



1000 Mbps MHz Electrical Specification @25degree C

| Item | TR | LX | DCR | Hi-Pot | Insertion Loss | |
|--------------------|--------|------------------------------|-----------------|--------------------|-------------------|------------|
| Part Number | | 100KHz, 100mV, 8mA, DC Bias | (Every RJ Pair) | Input to Output | 0.3-100MHz | 100-125MHz |
| XRJB/XMB-G6-88-X | 1:1+3% | 350 uH Min | 1.2 ohm Max | 1500VAC for 60s | -0.8dB Max | -1.2dB Max |
| | 1:1+3% | 350 uH Min | 1.2 ohm Max | 1500VAC for 60s | -0.8dB Max | -1.2dB Max |
| | | <u>Common Mode Rejection</u> | | <u>Return Loss</u> | <u>Cross Talk</u> | |
| XRJBXMB-G7-88-X | | 300-100MHz | 1-10 MHz | 30-60 MHz | 60-100 MHz | 1-10 MHz |
| XRJB/XMB-HXX-XXX-X | | -30dB Min | -20dB Min | -16dB Min | -12dB Min | -30dB Min |

Note: 10GB Datasheet References 10GB Schematics & Electrical Specifications.