

SINGLE RJ45 CONNECTOR MODULE WITH 10/100 BASE-TX MAGNETICS AND LEDS

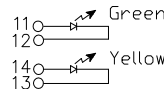
XMG- P1B121ZCHB

Page : 1/4

Feature

- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP.
- Meets or exceeds IEEE 802.3 standard for 100 Base-T.
- 350 μ H minimum OCL with 8 mA bias current.
- Minimum 1500 Vrms isolation per IEEE 802.3 requirement.
- All materials are RoHS and UL94-V0 compliant.
- RoHS peak solder rating 260°C.
- Meet EN60950-1 basic insulation requirement.
- Recommended panel

| Part Number | 11,12 (Left Led) | 13,14 (Right Led) |
|-------------|------------------|-------------------|
| 2 | Green | Yellow |



Electrical Specifications @ 25°C

| Part Number | Turns Ratio ($\pm 5\%$) | | Insertion Loss (dB Max) | Return Loss 100 $\Omega \pm 5\Omega$ (dB Typ) | | | |
|----------------|---------------------------|-----------|-------------------------|---|-----------|-----------|-----------|
| | TX | RX | | 1-10 MHz | 10-30 MHz | 30-60 MHz | 60-80 MHz |
| XMG-P1B121ZCHB | 1CT : 1CT | 1CT : 1CT | -1.15 | -20 | -16 | -12 | -10 |

Electrical Specifications @ 25°C

| Part Number | Crosstalk (dB Typ) | | | Common Mode Rejection (dB Typ) | | HI-POT (Vrms) @60MHz/1Min |
|----------------|--------------------|-----------|------------|--------------------------------|------------|------------------------------|
| | 1-30 MHz | 30-60 MHz | 60-100 MHz | 1-50 MHz | 50-150 MHz | |
| XMG-P1B121ZCHB | -40 | -35 | -30 | -30 | -20 | 1500 |

RJ45 Durability Testing Rating & Material Specification

| Part Number | Durability | Mating Force | Shield | |
|----------------|----------------|-------------------|----------|----------------------|
| | | | Material | Finish |
| XMG-P1B121ZCHB | 750 Insertions | 5 lbs./2.268 kgs. | Brass | 10-20m inches Nickel |

RJ45 Material Specification

| Part Number | Contact | | Housing | |
|----------------|----------------|---|---------------|---------------|
| | Material | Plating Area | Material | Specification |
| XMG-P1B121ZCHB | Phosphor Brass | 10-20m inches Nickel over selective gold plating 6 μ inches | Thermoplastic | UL 94 V-0 |

* Operating temperature range: 0 \square to +70 \square . Storage temperature range: -25 \square to +125 \square .

ULTRAMAG

1 Port 10/100Mbps Base-T



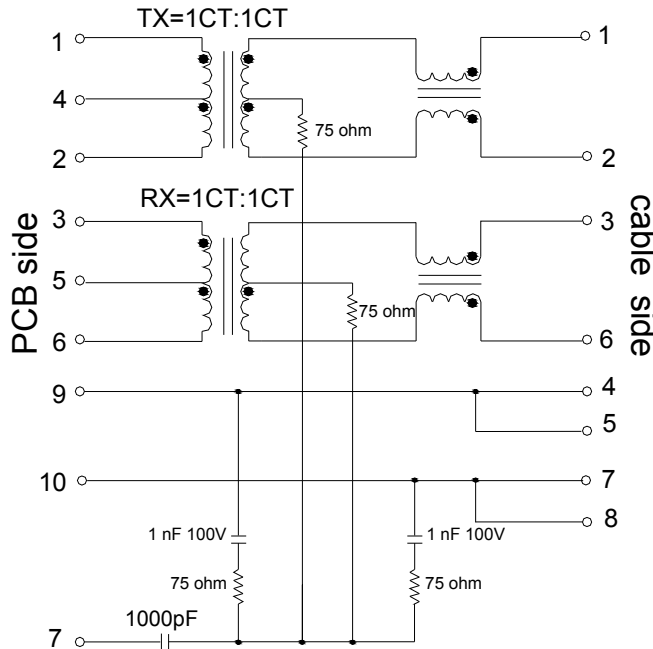
Connecting the Information Age
www.xmultiple.com

SINGLE RJ45 CONNECTOR MODULE WITH 10/100 BASE-TX MAGNETICS AND LEDS

XMG- P1B121ZCHB

Page : 2/4

Schematic



Mechanical

ULTRAMAG

1 Port 10/100Mbps Base-T



Connecting the Information Age
www.xmultiple.com

SINGLE RJ45 CONNECTOR MODULE WITH 10/100 BASE-TX MAGNETICS AND LEDS

XMG- P1B121ZCHB

Page : 4/4

NOTE:

Datasheet Change History:

| | | |
|----|---|------------------|
| V0 | . | Datasheet Set Up |
| | | |
| | | |
| | | |
| | | |
| | | |