RJ-45 10/100 BASE-TX Jack with Magnetic Module

N51XX Series

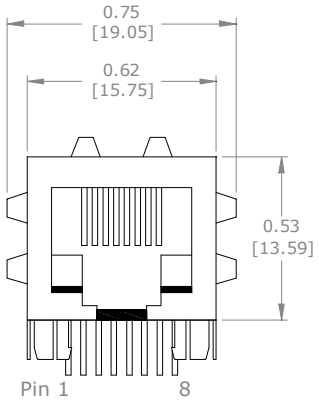
- Single port shielded RJ-45 connector with 10/100 Magnetics
- Operating temperature: 0°C to 70°C
- Storage temperature: -40°C to 85°C
- Available for all 10/100 transceiver Phy chips
- Complies with IEEE standards and all 10/100 Ethernet specifications including 350µH with 8mA DC Bias
- 1500Vrms Isolation

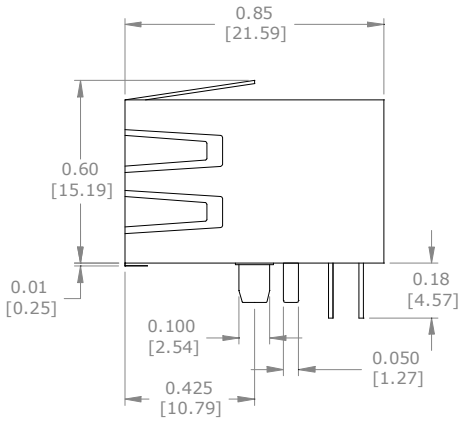
ELECTRICAL SPECIFICATION @ 25°C

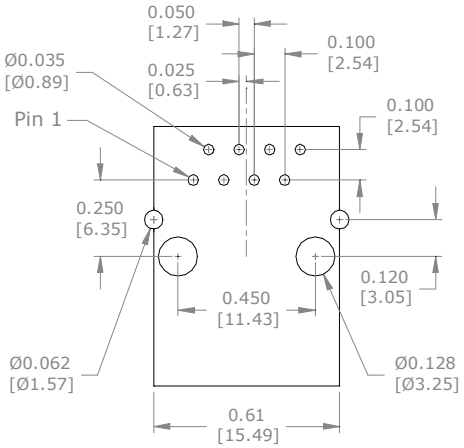
Part Number	Insertion Loss (dB max.)	Return Loss (dB min.)			Common to Common Mode Rejection (dB min.)	Common to Diferential Mode Rejection (dB min.)	Crosstalk (dB min.)
	0.3-100 MHz	1-30 MHz	30-60 MHz	60-80 MHz	0.1-100 MHz	0.1-100 MHz	0.5-100 MHz
N5110	-1	-18	18-20Log(f/30MHz)	-12	-35	-40	-35
N5120	-1	-18	18-20Log(f/30MHz)	-12	-35	-40	-35
N5130	-1	-18	18-20Log(f/30MHz)	-12	-35	-40	-35

- **Note:** 1) Contact: 30 micro inch selective gold plating
  2) Plastic Housing: Glass filled polyester UL94V-0
  3) Pins: Phosphor bronze t=0.35mm
  4)Operating Life: 750 cycles min.
  5) PCB retention pre-solder: 1 Lb min.
  6) PCB retention post- solder: 10 Lbs min.
- Other versions available with alternate pin-out configurations. Contact MPS Engineering Team.

Mechanical







Suggested Pad Layout

Dimensions
Unless otherwise specified, all tolerances are:
.XX ± 0.010" & .XXX ± 0.003"
Inches
[mm]

N3XXXS-A
0443TA

Product performance is limited to specified parameter. Data is subject to change without prior notice.

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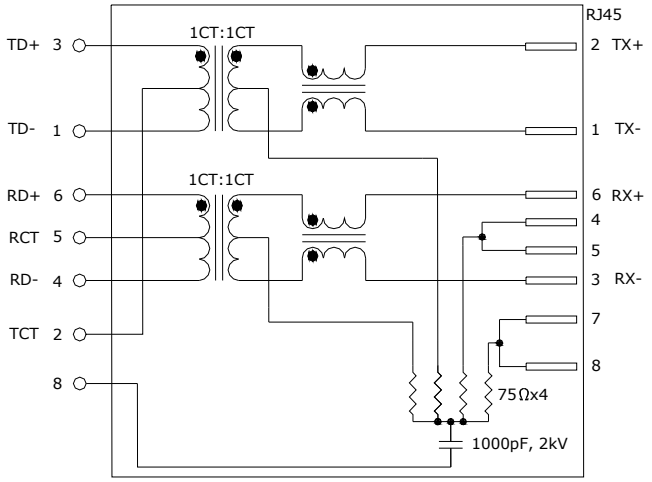
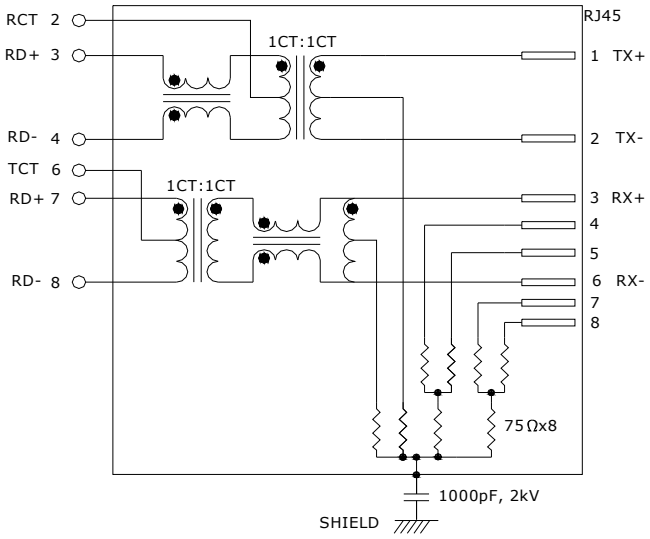
Schematics:

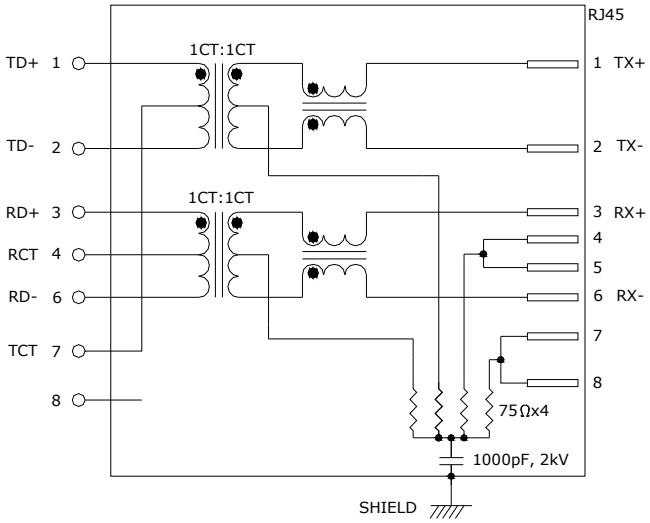
N5110



N5120



N5130



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