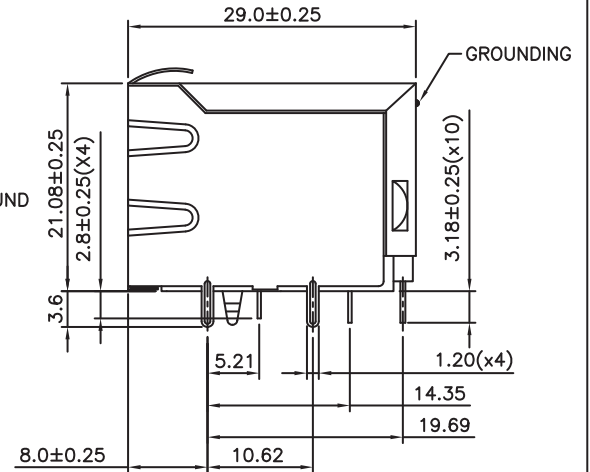
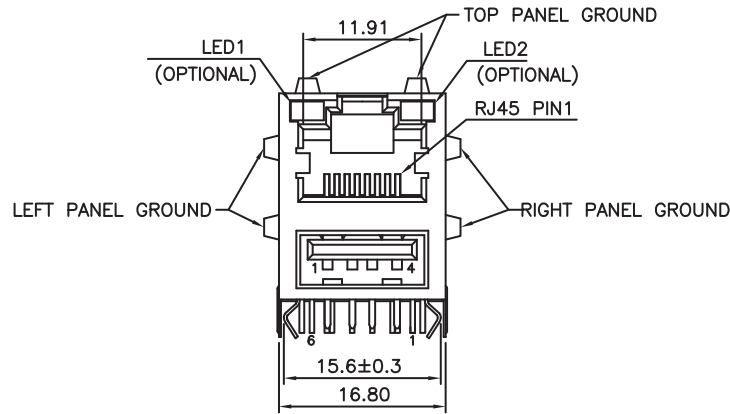
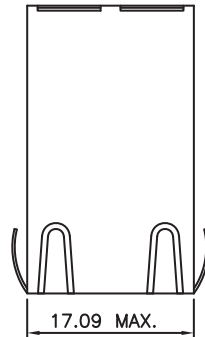


Meets IEEE 802.3 Specification



RJ45 SPECIFICATION:

ELECTRICAL CHARACTERISTICS:
CURRENT RATING: 1.5 AMPS MAX.
VOLTAGE RATING: 125VAC MAX.
INSULATION RESISTANCE: 500VAC Mohm MIN. @ 500VDC.
DIELECTRIC STRENGTH: 500VAC RMS 60Hz, 1 MIN.
LED'S CHARACTERISTICS:
POWER DISSIPATION: 80mW MAX.
FORWARD CURRENT: 30mA MAX.
FORWARD VOLTAGE: 2.2 VOLTS TYPICAL.
REVERSE VOLTAGE: 5.0 VOLTS MAX.

MECHANICAL CHARACTERISTICS:
MATING / UNMATING FORCES: 5 LBS. MAX.
DURABILITY (MATING/UNMATING CYCLES): 1000 CYCLES
OPERATING TEMPERATURE: 0° C TO + 70° C
STORAGE TEMPERATURE: -40° C TO + 85° C
CONNECTOR TO PCB INSERTION FORCE: < 8 LBS.

USB SPECIFICATION:

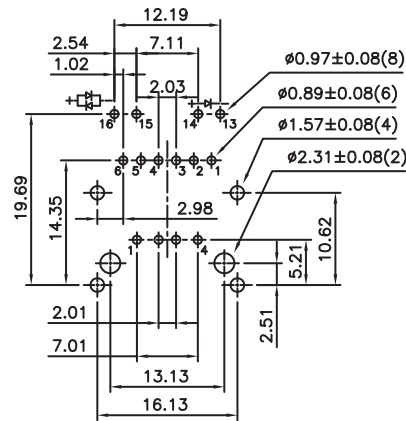
ELECTRICAL CHARACTERISTICS:
CONTACT CURRENT RATING: 1.5 AMP
CONTACT RESISTANCE: 30 mOHMS MAX.
DIELECTRIC WITHSTANDING VOLTAGE: 750 VAC RMS 60HZ, 1 MIN.
INSULATION RESISTANCE: 1000 MOHMS MIN @ 500 VDC.
MECHANICAL CHARACTERISTICS:
CONTACT MATING FORCE: 34.3N (3.5kg) MAX.
CONNECTOR UNMATING FORCE: 9.8N (1.0kg) MIN.
DURABILITY: 1500 CYCLES.
OPERATING TEMPERATURE: 0° C TO + 70° C

MECHANICAL:

DURABILITY: 750 Mating Cycles Min.
MATING/UNMATING FORCE: 5 LBS MAXIMUM.
DURABILITY (MATING/UNMATING CYCLES): 1000 CYCLES
OPERATING TEMPERATURE: 0°C TO +70°C.
STORAGE TEMPERATURE: -40°C TO +85°C
CONNECTOR TO PCB INSERTION FORCE: < 8 LBS.

MATERIAL:

INSULATOR: Thermoplastic (UL-94V-O PBT+ 30% GF
CONTACT: 0.35mm Thickness Phosphor Bronze
CONTACT PLATING: Nickel Underplate and Selective Gold in Mating Area



Recommended PCB Layout

HOW TO ORDER:

A 3 0 1 2 - U 3 S - S T 2 - X 1 0 - X X - Z

SELECTIVE PLATING:

6 - Au CONTACT AREA/TIN TAIL
7 - 15u" Au CONTACT AREA/TIN TAIL
8 - 30u" Au CONTACT AREA/TIN TAIL
9 - 50u" Au CONTACT AREA/TIN TAIL

LED 1: LED 2:
CHOOSE OPTION
FROM TABLE

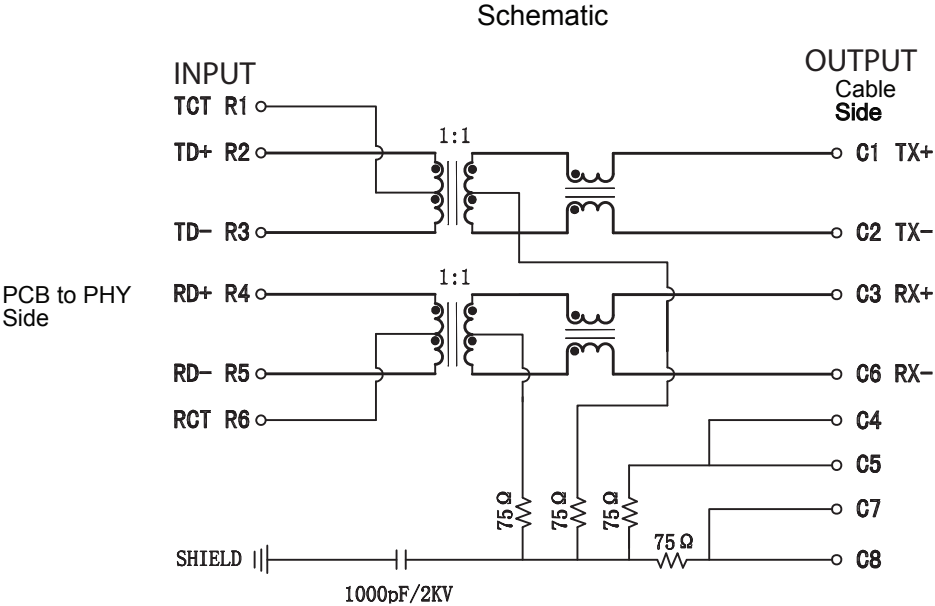
LED OPTION TABLE:

OPTION	FORWARD	REVERSE
G	GREEN	---
Y	YELLOW	---
R	RED	---
1	GREEN	ORANGE
2	YELLOW	ORANGE
3	GREEN	RED
4	YELLOW	RED
5	GREEN	YELLOW
6	YELLOW	GREEN
7	RED	GREEN
8	RED	YELLOW

RoHS
COMPLIANT

Rev		Drawn	Checked	Approved	Date	SMP TECHNOLOGY, INC. RJ12, 6P6C,USB, With Transformer Type TD, With LED, Shielded
0	Issued	B.S.	S.M.	S.M.	7/06/09	
A	Revised Shield	B.S.	S.M.	S.M.	3/06/10	
B	Revised PCB Layout	B.S.	S.M.	S.M.	01/28/16	
SCALE:n/a						
TOL. DEC. .XX +/- 0.30 .XX +/- 0.25 .XXX +/- 0.13 ANGLE +.45 / -.15 UNIT: mm						P/N: A3012 - U3S - ST2 - X10 - XX - Z Pg: 1 of 2

TRANSFORMER TYPE TD



SPECIFICATION:

Item	Parameter	Condition	Min.	Typ.	Max.	Unit	REMARK
1	Insertion loss	1-60 MHz			1.0	dB	
		60-100 MHz			1.0	dB	
		100-125 MHz			1.0	dB	
2	Return loss w/ 100 OHM Load	1-30 MHz	-18			dB	
		30-40 MHz	-16.0			dB	
		40-50 MHz	-12.0			dB	
		50-80 MHz	-10.0			dB	
3	CMRR	1-100 MHz	30			dB	
4	OCL	100 KHz	350			uH	
5	Crosstalk (Pair To Pair)	1-30 MHz	25			dB	
		30-60 MHz	25			dB	
		60-100 MHz	25			dB	

SCALE:n/a

TOL. DEC. .XX +/- 0.30 .XX +/- 0.25 .XXX +/- 0.13 ANGLE +.45 / -.15 UNIT: mm

SMP TECHNOLOGY, INC.	
RJ45 / (1)USB, With Transformer Type TD, With LED, Shielded	
P/N: A3012 - U3S - ST2 - X10 - XX - Z	
Pg: 2 of 2	