

PC Board Layout

MATES WITH PLUG CONFORMING TO FCC PART 68, SUBPART F.

ELECTRICAL:

CURRENT RATING: 1.5A Min.

CONTACT RESISTANCE:

< 20 Milliohm Max.

INSULATION RESISTANCE:

> 500 Megaohm Min.

DIELECTRIC WITHSTANDING VOLTAGE:

1000V (rms) AC for 1 Minute

OPERATING TEMPERATURE: -25° C to +90° C

MATERIAL:

INSULATOR: NYLON 46 (UL94V-0)

CONTACT: 0.35mm Thickness Phosphor Bronze

CONTACT PLATING: Nickel Plated and With 30u Gold Plated

MECHANICAL:

DURABILITY: 500 Mating Cycles Min.

SPECIFICATION:

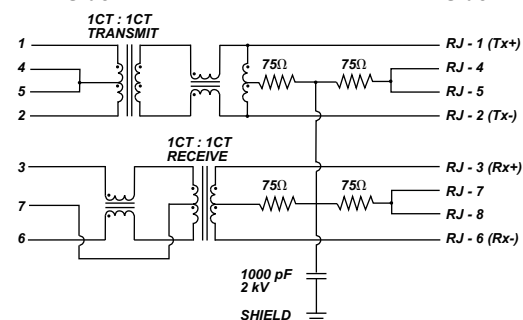
Item	Parameter	Condition	Min.	Typ.	Max.	Unit	REMARK
1	Insertion loss	1-100 MHz			-1.0	dB	
2	Return loss	1-30 MHz	-20			dB	NOTE 1
		30-60 MHz	-15			dB	
		60-80 MHz	-10			dB	
3	Common to Diff. Rejection	100KHz-100MHz	-35			dB	
4	Common to Comm. Rejection	100KHz-100MHz	-35			dB	
5	OC	100 KHz	350			μH	
6	Crosstalk (Pair To Pair)	100KHz-100MHz	-30			dB	
7	Hipot	Vrms	1.5			kV	
8	Turns Ratio (Chip : Cable)	TX : 1 : 1 RX : 1 : 1				CT	
9	Direct Current Resistance				1.2	Ω	

NOTE 1: Greater than (16-20 Log (f/30MHZ)) dB

PINOUT

PIN	SYMBOL
1	Td+
2	Td-
3	Rd+
4	CT
5	CT
6	Rd-
7	CT

PCB to PHY Side



HOW TO ORDER:

A 3 0 1 2 - 0 4 S - N 0 0 - X 0 0 - 0 0 0 T1 - Z

TABS:

N0 - NO TABS
ST - SPRING TABS
GT - GROUND TABS

SPRING TAB LOCATION:

0 - NO TAB LOCATION
1 - SPRING TABS ON TOP
2 - SPRING TABS ON TOP & SIDES
3 - SPRING TABS ON TOP, SIDES & BOTTOM
4 - SPRING TABS ON TOP (NORMAL POSITION) & SIDES (ROTATED UP)
5 - SPRING TABS ON SIDES (OFF SET)
6 - SPRING TABS ON TOP & SIDES (OFF SET)
7 - SPRING TABS ON SIDES

SELECTIVE PLATING:

6 - Au CONTACT AREA/TIN TAIL
7 - 10u" Au CONTACT AREA/TIN TAIL
8 - 15u" Au CONTACT AREA/TIN TAIL
9 - 30u" Au CONTACT AREA/TIN TAIL

W/ TRANSFORMER:

T1 - Type 1 Transformer

RoHS
COMPLIANT

DIMENSION "D"

PCB GROUND TAB LOCATION:

0 - FRONT, 4.57mm
B - BACK, 3.05mm
F - FRONT 3.65mm

Rev	Apv.	Date	SMP TECHNOLOGY, INC.	
0	Issued	A.M.		
A	Revised for RoHS Compliance	WHS	RJ45 JACK, w/ TRANSFORMER - FOUR PORT,	
SCALE			SHIELDED, FRONT TAB 4.57mm	
MAT'L			FINISH	
TOL. DEC.	.X +/-	.XX +/- 0.25	.XXX +/- 0.15	ANGLE +0.45/-0.15
UNIT: mm			P/N: A3012 - 04S - N00 - X00 - 00T1 - Z	