

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

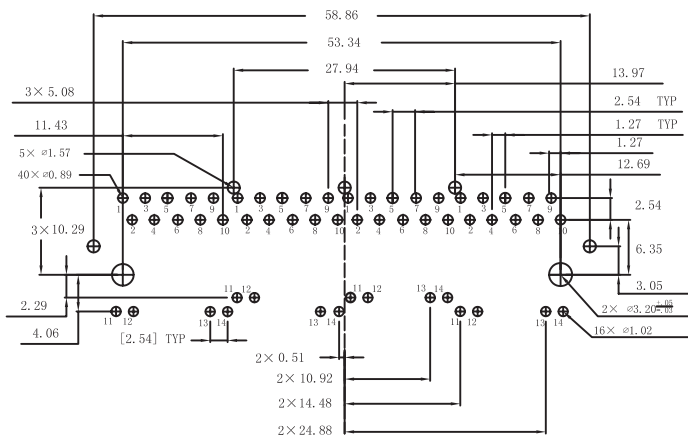
#### LED OPTION TABLE:

| OPTION | FORWARD | REVERSE |
|--------|---------|---------|
| G      | Green   | ---     |
| Y      | Yellow  | ---     |
| 1      | Green   | Orange  |
| 2      | Yellow  | Orange  |
| 3      | Green   | Red     |
| 4      | Yellow  | Red     |
| 5      | Green   | Yellow  |
| 6      | Yellow  | Green   |

#### LED SCHEMATIC



|                       |                                         |                |
|-----------------------|-----------------------------------------|----------------|
| Insertion Loss        | 1 ~ 100 Mhz.                            | - 1 db Max.    |
| Return Loss           | 1 ~ 30 Mhz.                             | - 16 db Min.   |
|                       | 30 ~ 40 Mhz.                            | - 13.5 db Min. |
|                       | 40 ~ 50 Mhz.                            | - 11.5 db Min. |
|                       | 50 ~ 80 Mhz.                            | - 10 db Min.   |
| Crosstalk             | .3 ~ 30 Mhz.                            | - 40 db Min.   |
|                       | 30 ~ 60 Mhz.                            | - 35 db Min.   |
|                       | 60 ~ 100 Mhz.                           | - 30 db Min.   |
| Common Mode Rejection | 1 ~ 30 Mhz.                             | - 35 db Min.   |
|                       | 30 ~ 60 Mhz.                            | - 32 db Min.   |
|                       | 60 ~ 125 Mhz.                           | - 30 db Min.   |
| Hipot                 | @ 60 Hz.                                | 1500 Vrms      |
| Turns Ratio ( +/- 5%) | Tx 1Ct:1Ct Rx=1Ct:1Ct                   |                |
| OCL                   | 350uH Min@100 Khz/0.1V with 8mA DC Bias |                |



SUGGESTED PCB LAYOUT (TOP VIEW)

#### ELECTRICAL:

VOLTAGE RATING: 120V AC  
CURRENT RATING: 1.5A Min.

CONTACT RESISTANCE:

< 20 Milliohm Max.

INSULATION RESISTANCE:

> 500 Megaohm Min.

DIELECTRIC WITHSTANDING VOLTAGE:

1000V (rms) AC for 1 Minute Min.

OPERATING TEMPERATURE: 0° C to +70° C

#### MATERIAL:

INSULATOR: PBT Glass Filled (UL94V-0)

CONTACT: 0.35mm Thickness Phosphor Bronze

CONTACT PLATING: Gold Plating over Nickel

#### MECHANICAL:

DURABILITY: 500 Mating Cycles Min.

#### HOW TO ORDER:

A 3 0 1 2 - 0 4 C - N 0 0 - X 0 B1 - Y G T7 - Z

#### SPRING TAB LOCATION:

0 - NO SPRING TABS ON TOP,  
SIDE & BOTTOM

#### 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

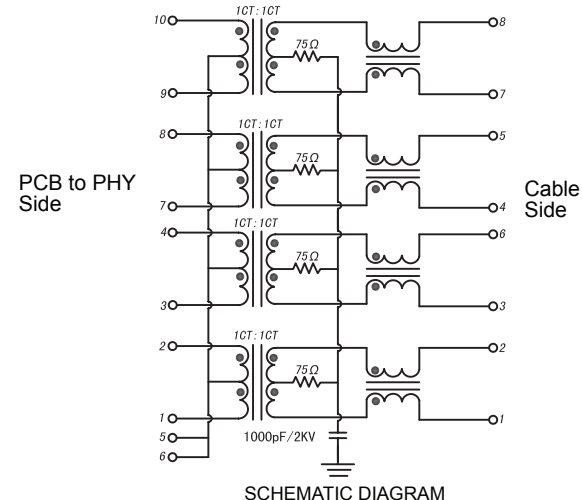
#### DIMENSION "D"

#### PCB GROUND TAB LOCATION:

B1 - Back 3.05 3 Rear Tabs (Staggered LED's - 4 Port)

LED 1: LED 2: RoHS COMPLIANT

W/ TRANSFORMER:  
T7 - Type 7 Transformer



| Rev        | Drawn  | Checked      | Approved      | Date              | SMP TECHNOLOGY, INC.<br><br>1000 BASE-TX RJ45 JACK, ,w/ TRANSFORMER w/LED's ;FOUR PORT<br><br>SHIELDED, PCB SHIELD PEG 3.05mm, STAGGERED LED's<br><br>P/N: A3012 - 04C - N00 - X0B1 - YGT7 - Z |
|------------|--------|--------------|---------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0          | Issued | B.S.         | S.M.          | S.M.              |                                                                                                                                                                                                |
|            |        |              |               |                   |                                                                                                                                                                                                |
|            |        |              |               |                   |                                                                                                                                                                                                |
| SCALE: N/A |        |              |               |                   |                                                                                                                                                                                                |
| TOL. DEC.  | .X +/- | .XX +/- 0.25 | .XXX +/- 0.15 | ANGLE +0.45/-0.15 | UNIT: mm                                                                                                                                                                                       |