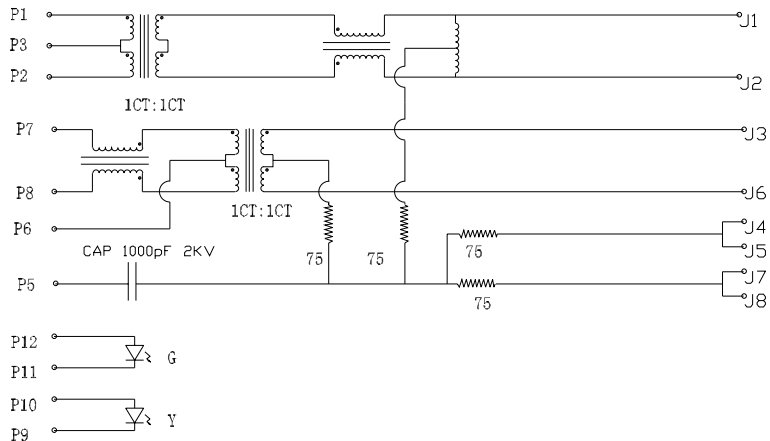


# SPECIFICATION FOR APPROVAL

PRODUCT NAME: 59 1\*1port with transformer and  
LED, EMI, 10/100BT Ater 3. 05

PRODUCT NO : TS-50021



## ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO: (P1~P2):(J1~J2)  
(P7~P8):(J3~J6)

:1:1±3%

:1:1±3%

2.0 INDUCTANCE: (P1~P2)  
(P7~P8)

350uH MIN @ 0.1V,100KHZ, 8mA DC BIAS

350uH MIN @ 0.1V,100KHZ, 8mA DC BIAS

3.0 LEAKAGE INDUCTANCE: P1~P2(WITH J1 AND J2 SHORT)  
P7~P8(WITH J3 AND J6 SHORT)

:0.3uH MAX @1 MHZ

:0.3uH MAX @1 MHZ

SIZE A	DRAWING NO. <b>TS-50021</b>	REV 01
SCALE N/A		SHEET 2 OF 7

4.0 INTERWINDING CAPACITANCE:(P1~P2):(J1~J2) :35pF MAX @ 1MHZ  
(P7~P8):(J3~J6) :35pF MAX @ 1MHZ

5.0 DC RESISTANCE:(J1~J2):(P7~P8) :1.2 OHMS MAX

6.0 RETURN LOSS: 1MHZ TO 30MHZ :−18dB MIN  
30MHZ TO 80MHZ :−12dB MIN

7.0 DIELECTRIC WITHSTAND:(P1~P2):(J1~J2) :1500VAC  
(P7~P8):(J3~J6) :1600VAC

8.0 INSERTION LOSS:RS=RL=100OHM :−1.1dB MIN  
100KHZ TO 80MHZ

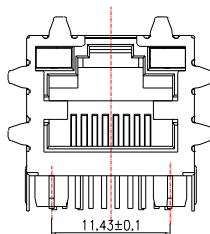
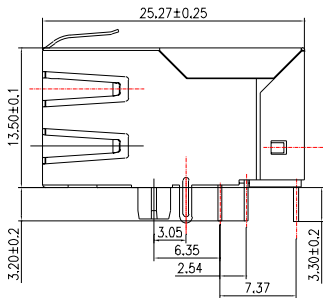
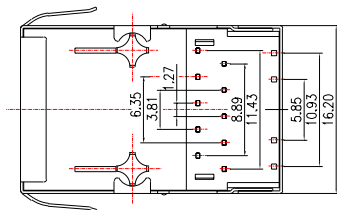
9.0 RISE TIME:RS=100 OHMS AND RL=100OHMS :3.0nS MAX  
OUTPUT VOLTAGE=1V PEAK :3.0nS MAX  
PULSE WIDTH= 112nS

10.0 CROSS TALK: 1MHZ TO 100MHZ 40dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHZ TO 100MHZ :35dB TYP

SIZE A	DRAWING NO. TS-50021	REV 01
SCALE N/A		SHEET 3 OF 7

# MECHANIC SPECIFICATIONS:



## NOTES:

1. CONNECTOR MATERIAL:
- HOUSING: THERMOPLASTIC UL94 V-0
- CONTACT/SHIELD: COOPER ALLOY
- SHIELD PLATING: NICKEL OR TIN
- CONTACT PLATING: SELECTIVE GOLD,
 

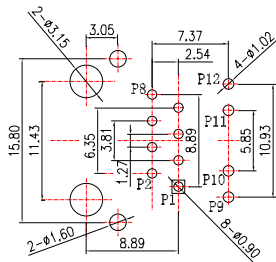
50 MICRO-INCHS MIN	<input type="checkbox"/>
30 MICRO-INCHS MIN	<input type="checkbox"/>
15 MICRO-INCHS MIN	<input type="checkbox"/>
6 MICRO-INCHS MIN	<input type="checkbox"/>
3 MICRO-INCHS MIN	<input type="checkbox"/>

IN CONTACT AREA

2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL DRAWING FOR OMITTED PINS
3. TOLERANCES COMPLY WITH F. C. C DIMENSION REQUIREMENTS
4. WAVE SOLDER COMPATIBLE-PREHEAT 125 C DEGREE/90SECS
5. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±0.1mm.

SIZE A	DRAWING NO. TS-50021	REV 01
SCALE N/A		SHEET 4 OF 7

# MECHANIC SPECIFICATIONS:

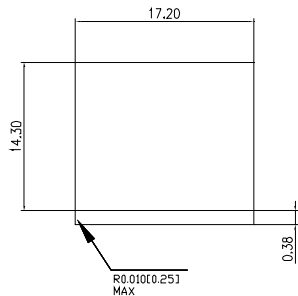


P.C.B RECOMMENDED HOLE LAYOUT  
 SEEN FROM COMPONENT SIDE.  
 ALL CENTERLINE DIMENSIONS ARE BASIC

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	Forward V(max)	TYP
GREEN	565nm	2.4V	2.2V
YELLOW	590nm	2.5V	2.1V

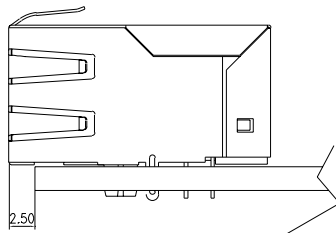
\*WITH A FORWARD CURRENT OF 20mA

SIZE A	DRAWING NO. TS-50021	REV 01
SCALE N/A		SHEET 5 OF 7



.015\*(0.38) FROM TOP OF PCB TO BOTTOM  
OF OPENING.

SUGGESTED PANEL OPENING(N.T.S)



- 1.THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK/PANEL CLEARANCES CAPABILITY.
- 2.ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE  $\pm 0.005$  INCH(0.13)

SIZE A	DRAWING NO. TS-50021	REV 01
SCALE N/A		SHEET 6 OF 7

TEST DATA SHEET:

SIZE A	DRAWING NO. TS-50021	REV 01
SCALE N/A		SHEET 7 OF 7