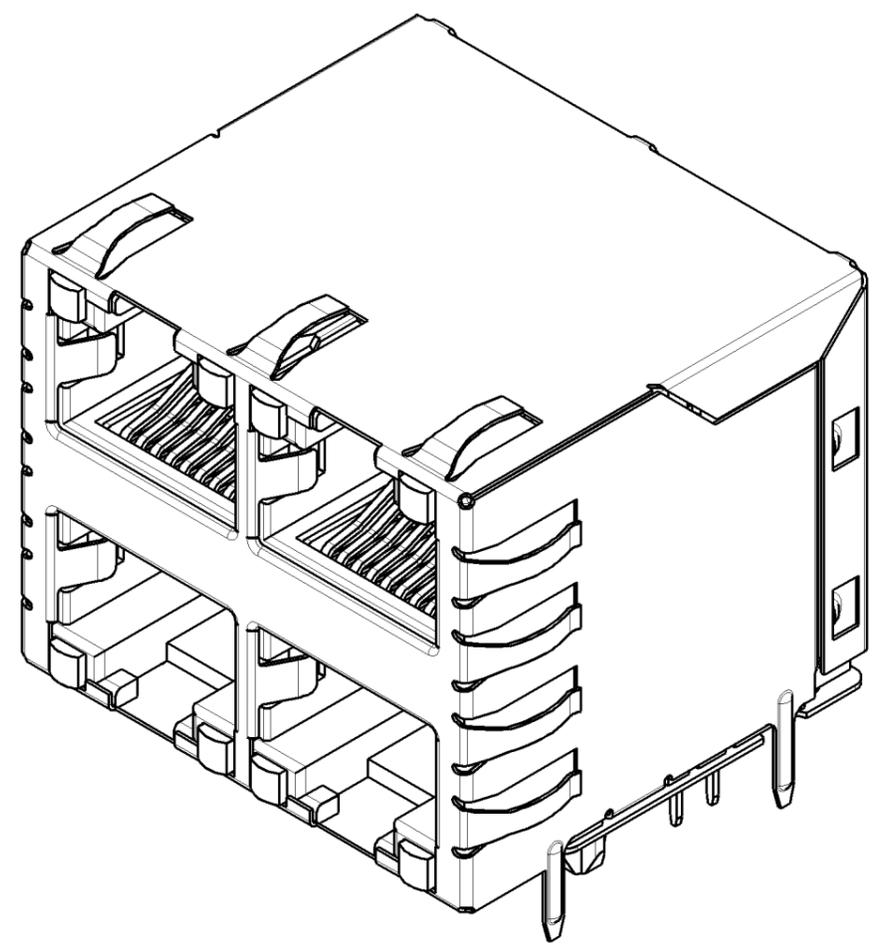


REVISONS		DATE	BY	APPV
C	ECO-09-009952	19MAR2009	RO	RAO
D	ECO-11-014530	01JUL2011	PP	LJ



1. MATERIALS:
 PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
 SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,
 POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,
 CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL
 UNDERPLATE WITH SELECT 1.27um MIN GOLD AT MATING INTERFACE
 AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
 LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME TAILS OF LED
 ARE PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL
 UNDERPLATE OVER 1.02um MIN COPPER UNDERPLATE. POST-PLATED WITH
 2.54um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP
- ⚠ MAGNETICS
 -APPLICATION: 10/100 BASE-T, EXTENDED TEMPERATURE
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
 -OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
 8mADC BIAS FROM -40°C TO 85°C, TX AND RX
 -PERFORMANCE @ 25°C:
 INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
 RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
 18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz
 12dB MIN FROM 60.1MHz TO 80MHz
 CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
 COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
 -ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND
 WITH ALL PORTS CONNECTED.
- ⚠ PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, LOCATED IN THE APPROXIMATE AREA SHOWN.
 DATE CODE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1.
- ⚠ TE CONNECTIVITY LOGO, AGENCY APPROVAL MARKING LOGO LOCATED IN THE APPROXIMATE
 AREA SHOWN.
5. OPERATING TEMP: FROM -40°C TO +85°C.
- ⚠ RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
- ⚠ DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- ⚠ BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE
 GREATER THAN 5.08mm.
- ⚠ LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
10. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK SOLDERING
 TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.

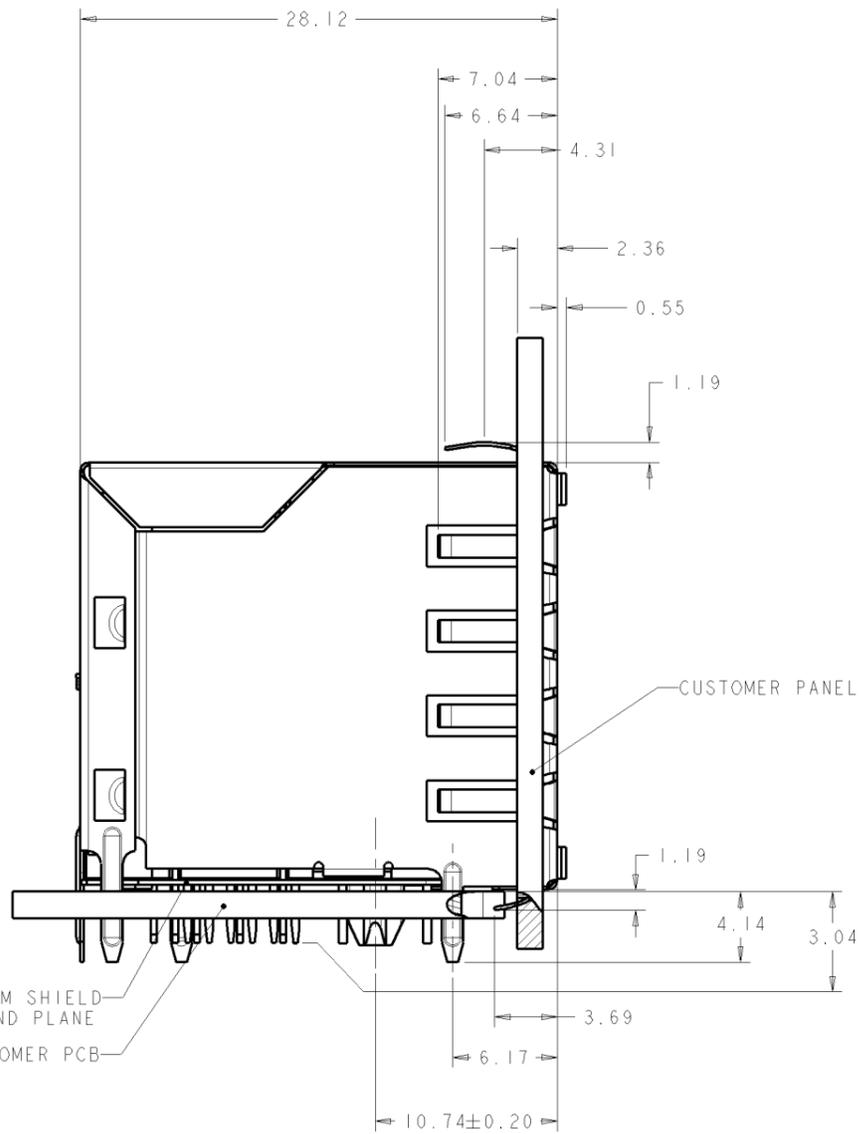
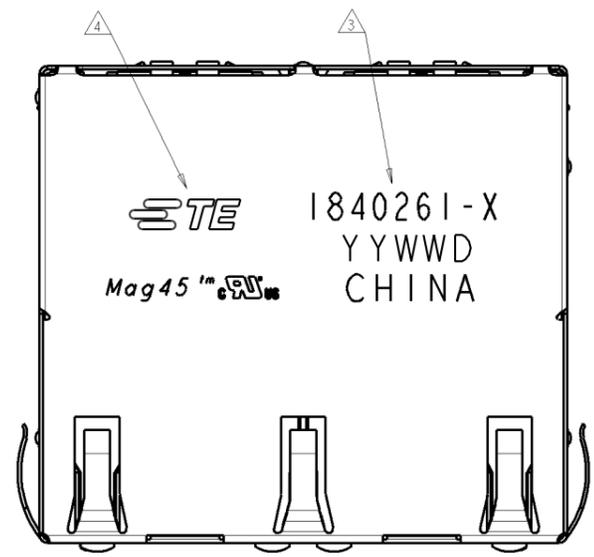
GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	1840261-4
GREEN	YELLOW	GREEN	YELLOW	1840261-3
YELLOW	GREEN	GREEN	YELLOW	1840261-2
GREEN	GREEN	GREEN	GREEN	1840261-1
BOTTOM LED NO. 2	BOTTOM LED NO. 1	TOP LED NO. 2	TOP LED NO. 1	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

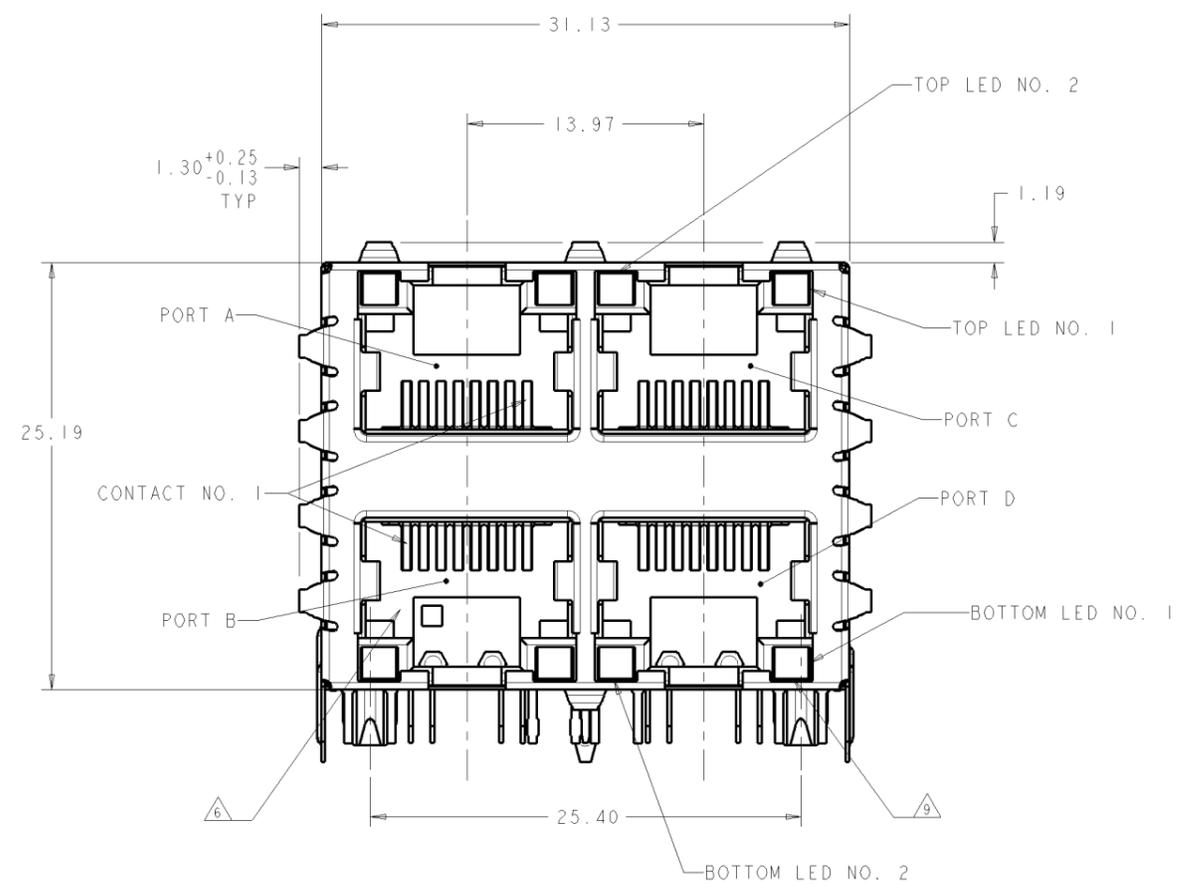
DIMENSIONS: (mm) 	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0. PLC ±0.25 1. PLC ±0.25 2. PLC ±0.25 3. PLC ± 4. PLC ± ANGLES ±	DWG: PTFE.LI CHK: DENNIS.CHEN APPV: TEDDY.XIANG PRODUCT SPEC: 108-2100 APPLICATION SPEC: WEIGHT: CUSTOMER DRAWING	NAME: 2X2 MAG45(TM), 10/100 S866P9 ET CIRCUIT WAVE PANEL, GROUND SHIELD W/LEDS CONTACT PIN 2 SIZE: A CAGE CODE: 00779 DRAWING NO: 1840261 SCALE: 4:1 SHEET: 1 OF 4 REV: D
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TE Connectivity

LOC	REV	DATE	DESCRIPTION	DATE	BY	APPV
AA	00		SEE SHEET 1			

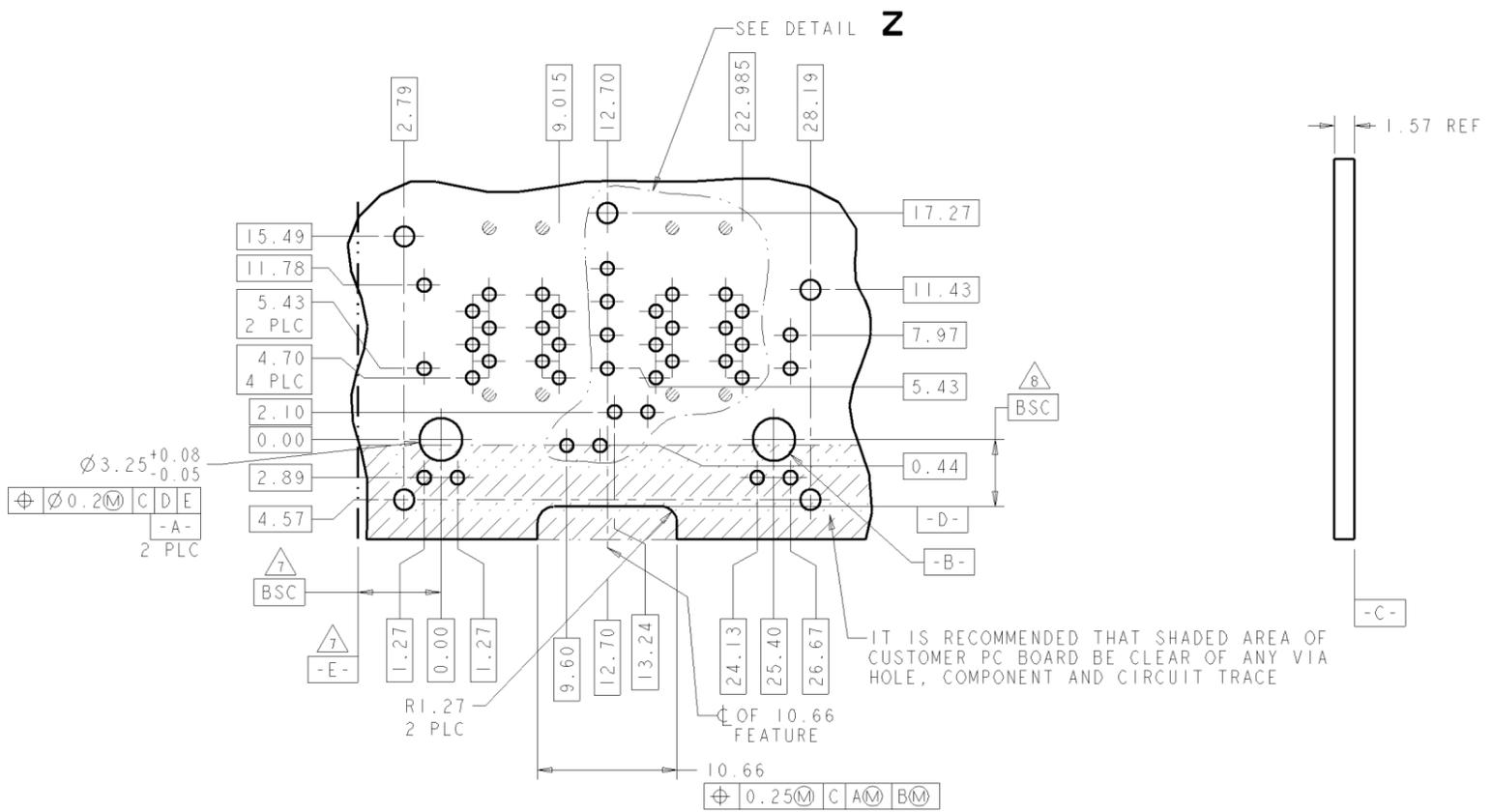


SIDE VIEW WITH CUSTOMER PANEL AND PCB FOR LOCATION

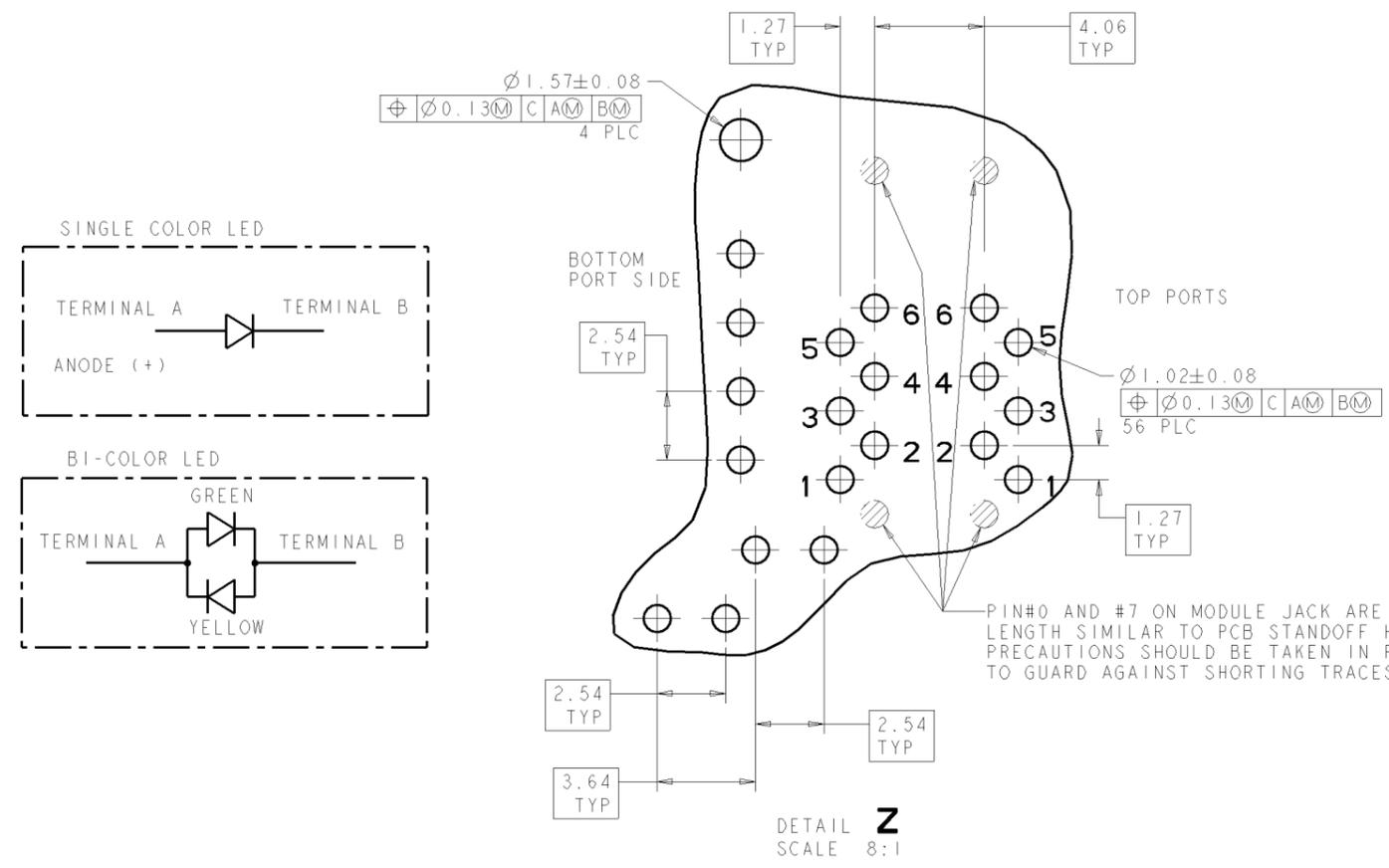


THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW: P.TE LL 10DEC2007	TE Connectivity	
DIMENSIONS: (mm)		CHK: DENNIS CHEN 10DEC2007		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: TEDDY YLONG 10DEC2007	NAME: 2X2 MAG45(TM), 10/100 S866P9 ET	
0. PLC	±0.25	PRODUCT SPEC	CIRCUIT WAVE PANEL, GROUND SHIELD	
1. PLC	±0.25	APPLICATION SPEC	W/LEDS CONTACT PIN 2	
2. PLC	±0.25	SIZE	A	00779
3. PLC	±	SCALE	4:1	SHEET 2 OF 4
4. PLC	±	WEIGHT		REV D
ANGLES	±	CUSTOMER DRAWING		

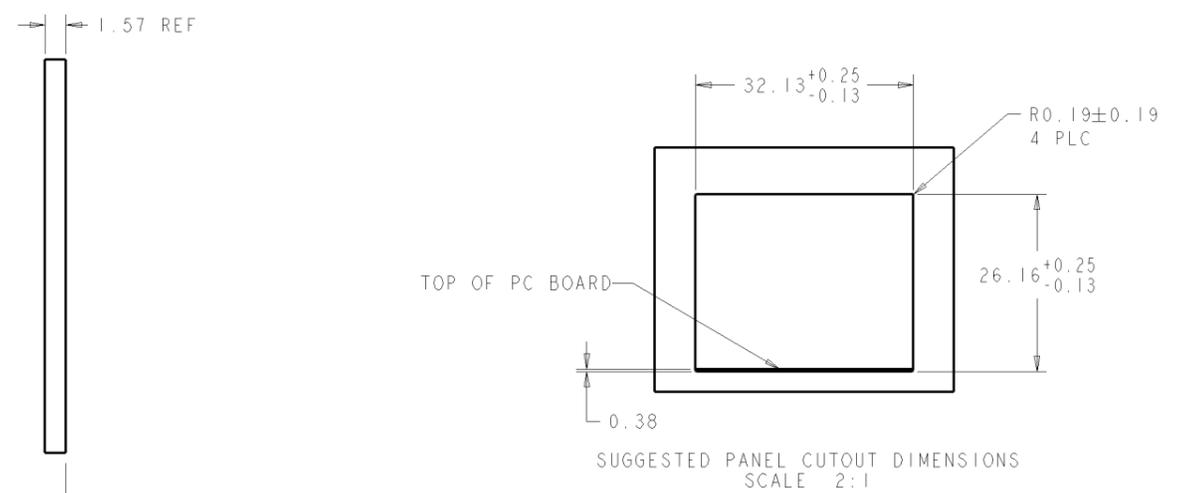
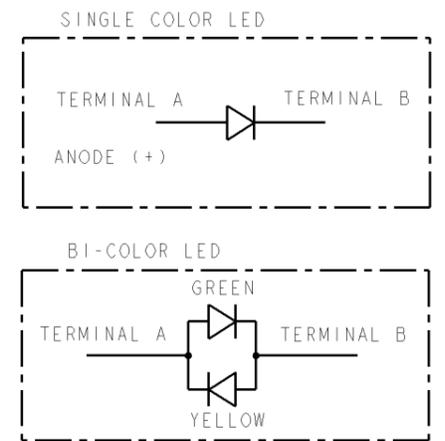
LOC	REV	DESCRIPTION	DATE	DRW	APPD
AA	00	SEE SHEET 1			
REVISIONS					



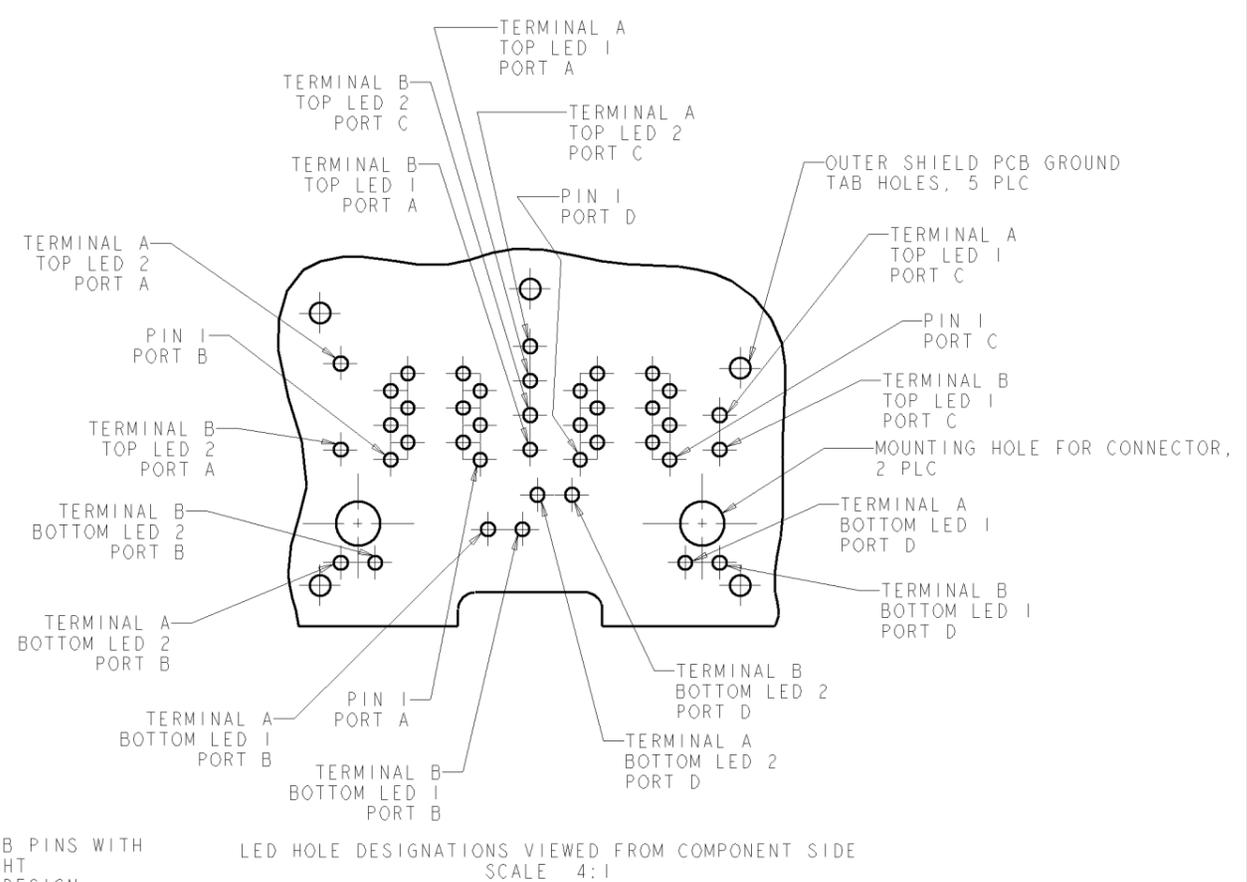
PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE



DETAIL Z SCALE 8:1



SUGGESTED PANEL CUTOUT DIMENSIONS SCALE 2:1



LED HOLE DESIGNATIONS VIEWED FROM COMPONENT SIDE SCALE 4:1

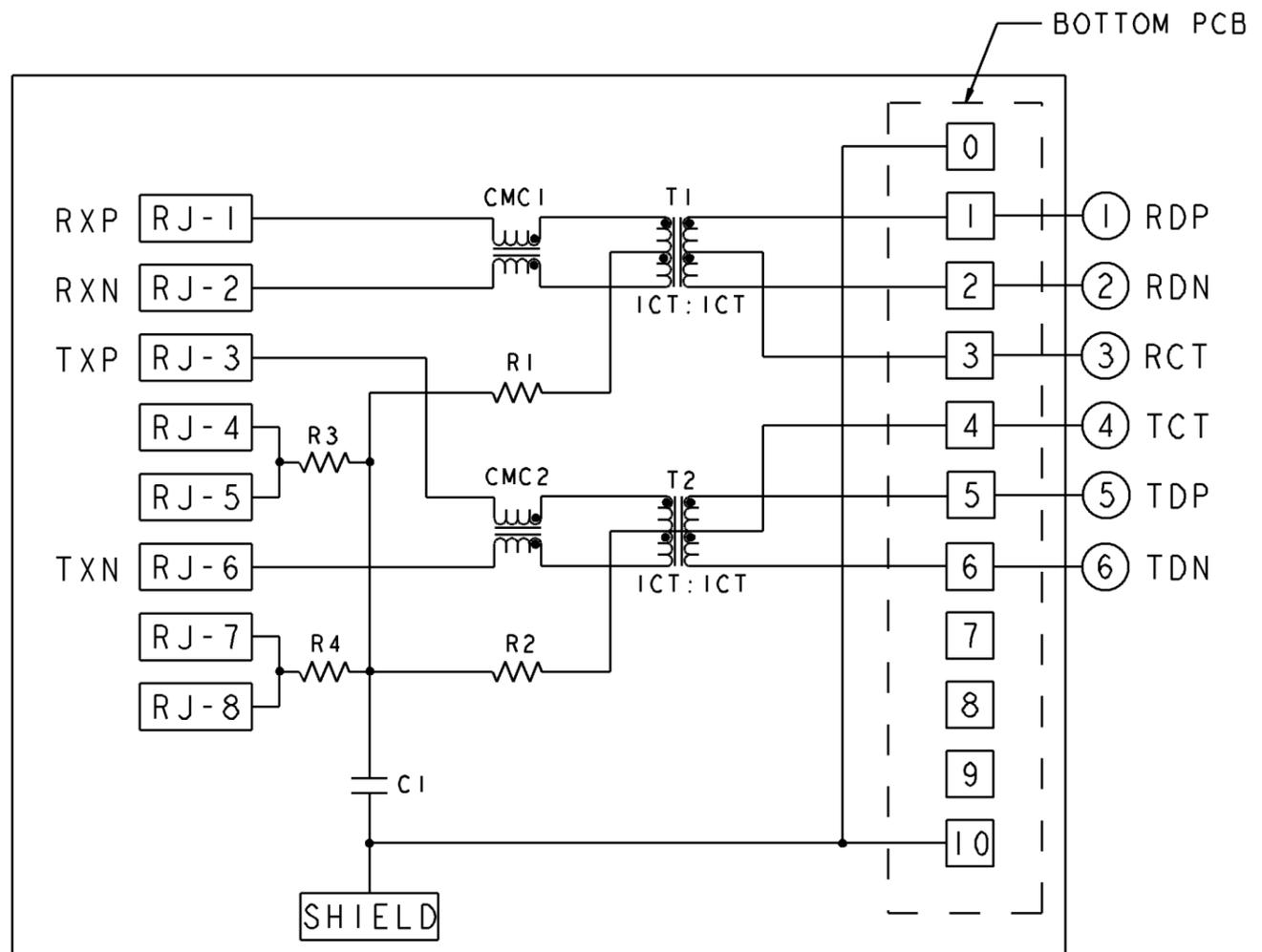
THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW: P.TE LL	DATE: 10DEC2007
DIMENSIONS: (mm)		CHK: DENNIS CHEN	DATE: 10DEC2007
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPD: TEDDY YLONG	DATE: 10DEC2007
0 PLC	±0.25	PRODUCT SPEC	
1 PLC	±0.25	APPLICATION SPEC	
2 PLC	±0.25		
3 PLC	±0.25		
4 PLC	±		
ANGLES	±		
MATERIAL: SEE NOTE 1	FINISH: SEE NOTE 1	WEIGHT: -	SIZE: -
		CUSTOMER DRAWING	SCALE: 4:1

NAME: 2X2 MAG45(TM), 10/100 S866P9 ET CIRCUIT WAVE PANEL, GROUND SHIELD W/LEDS CONTACT PIN 2	
SIZE: A	DATE: 100779
DRAWING NO: 1840261	REV: 3 OF 4

REVISITS		DATE	DNW	APPD
AA	00			
		SEE SHEET 1		

S866P9 ET 10/100 BASE-T CIRCUIT Δ

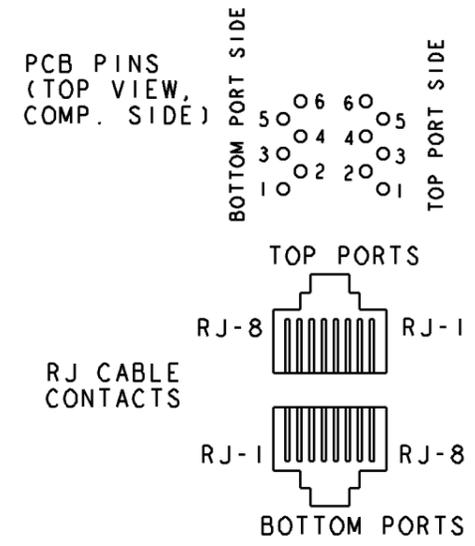
TOP AND BOTTOM PORTS



C1 = 1000 pF, 2kV, $\pm 10\%$, X7R DECOUPLING CAP
 R1-R4 = 75 Ohms, 1/16 W, $\pm 5\%$ RESISTORS

PIN DESIGNATION

(REPEAT FOR EACH VERTICAL PAIR OF PORTS)



THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW: PTFE.LI	10DEC2007	TE Connectivity
DIMENSIONS: (mm)		CHK: DENNIS.CHEN	10DEC2007	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPD: TEDDY.XLONG	10DEC2007	NAME: 2X2 MAG45(TM), 10/100 S866P9 ET
0. PLC	± 0.25	PRODUCT SPEC		CIRCUIT WAVE PANEL, GROUND SHIELD
1. PLC	± 0.25	APPLICATION SPEC		W/LEDS CONTACT PIN 2
2. PLC	± 0.25	SIZE: A	108-2100	RESTRICTED TO
3. PLC	\pm	SCALE: 4:1		SHEET 4 OF 4
4. PLC	\pm	REV: D		
ANGLE	\pm			
MATERIAL: SEE NOTE 1	FINISH: SEE NOTE 1	WEIGHT: -	CAGE CODE: 100779	DRAWING NO: 1840261
CUSTOMER DRAWING				