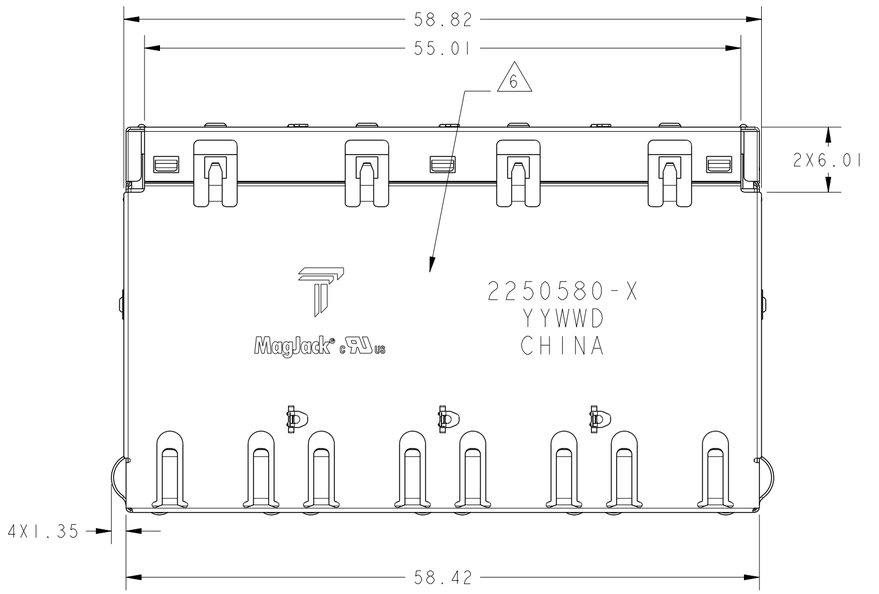
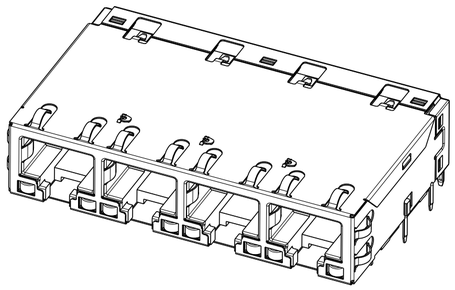
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 8217391 8149050 7924130

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	D	EC-1908017	13AUG2019	JY	TY





1. MATERIALS:
   -HOUSING: THERMOPLASTIC, FLAMMABILITY, RATING UL 94V-O
   -SHIELD: 0.20mm THICK, COPPER BASE ALLOY PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL. OR 0.20mm THICK STAINESS STEEL.
   -MOD JACK CONTACTS: 0.3mm THICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, WITH 1.27um MIN LOCALIZED GOLD PLATE AT CONTACT INTERFACE
   -LED: DIFFUSED EPOXY LENS 0.5 SQUARE CABBON STEEL WIREFRAME LEADS 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

2 MAGNETICS:
   - APPLICATION: 1G/10G BASE-T, 4PPoE
   - IMPEDANCE: 100 OHMS
   - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
   - OPEN CIRCUIT INDUCTANCE (OCL): 160uH MIN @ 100kHz, 0.1VRMS FROM 0°C TO 70°C, ALL FOUR PAIRS, 120uH MIN @ 100kHz, 0.1VRMS, 23mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
   - ALL FOUR PAIRS BI-DIRECTIONAL
   - PoE CURRENT: 1A DC MAX
   - PERFORMANCE @ 25 °C: PLEASE REFER TO SEPARATE SHEET
   - ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC, WITH ALL PORTS CONNECTED

3. OPERATING TEMPERATURE: FROM 0°C TO 70°C

4 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.

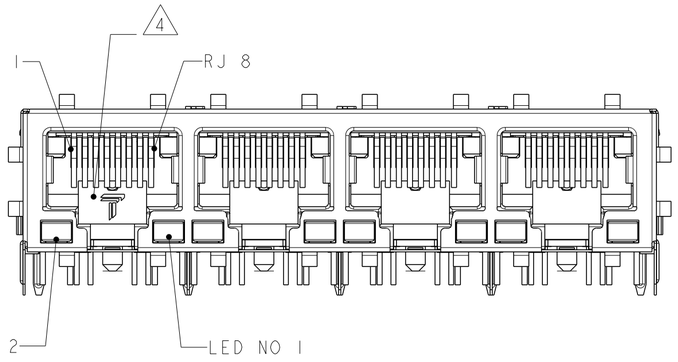
5. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

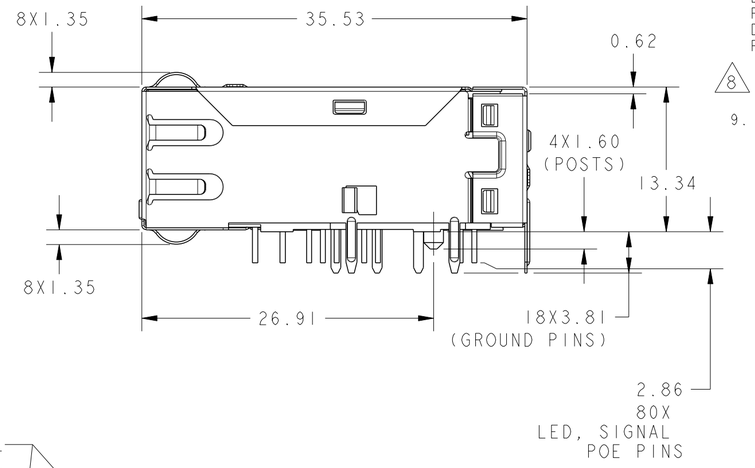
6 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN, DATE CODE: YYWWD WHERE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1.

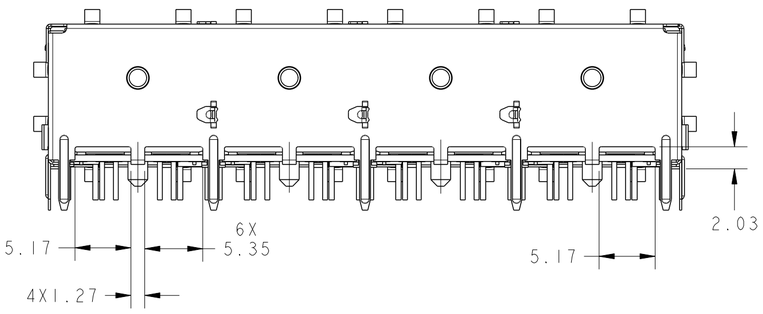
7 LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
   LED COLOR:
   DOMINANT WAVELENGTH (λD): GREEN 568nm TYP. at IF=20mA
   FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
   DOMINANT WAVELENGTH (λD): YELLOW 588nm TYP. at IF=20mA
   FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA

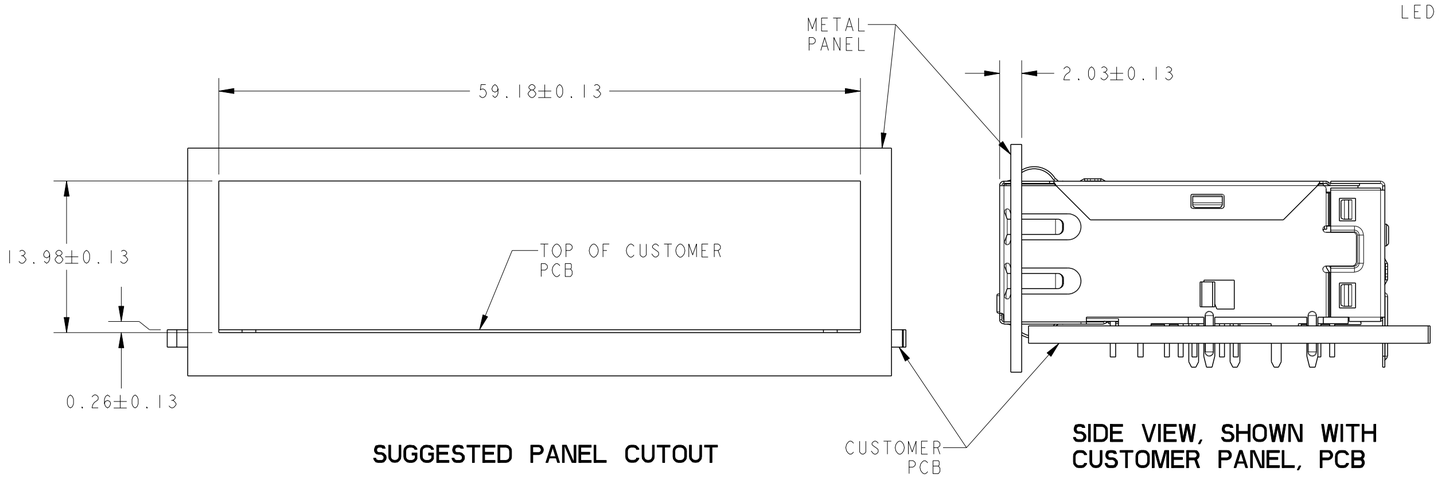
8 DATUM Y AND BASIC DIMENSION ESTABLISH BY CUSTOMER.

9. PART SHOULD BE COMPLIANT WITH WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.









SUGGESTED PANEL CUTOUT

SIDE VIEW, SHOWN WITH CUSTOMER PANEL, PCB

VERSION	LED NO 2	LED NO 1	PART NUMBER
NEW 10G VERSION	GREEN/YELLOW	GREEN/YELLOW	2250580-2
ORIGINAL 10G VERSION	GREEN/YELLOW	GREEN/YELLOW	2250580-1

THIS DRAWING IS A CONTROLLED DOCUMENT.
AND COMPLIANT TO ASME Y14.5M

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±0.25
4 PLC ±0.25
ANGLES ±-

PRODUCT SPEC: 108-104004
APPLICATION SPEC: -

DWN TOWER YU 05FEB2018
CHK BILL LIU 05FEB2018
APVD TONY YUAN 05FEB2018

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK GANG 4PPoE

DESC: 1X4 4UTG02 10G 100W 4PPOE TAB DOWN W/ LED

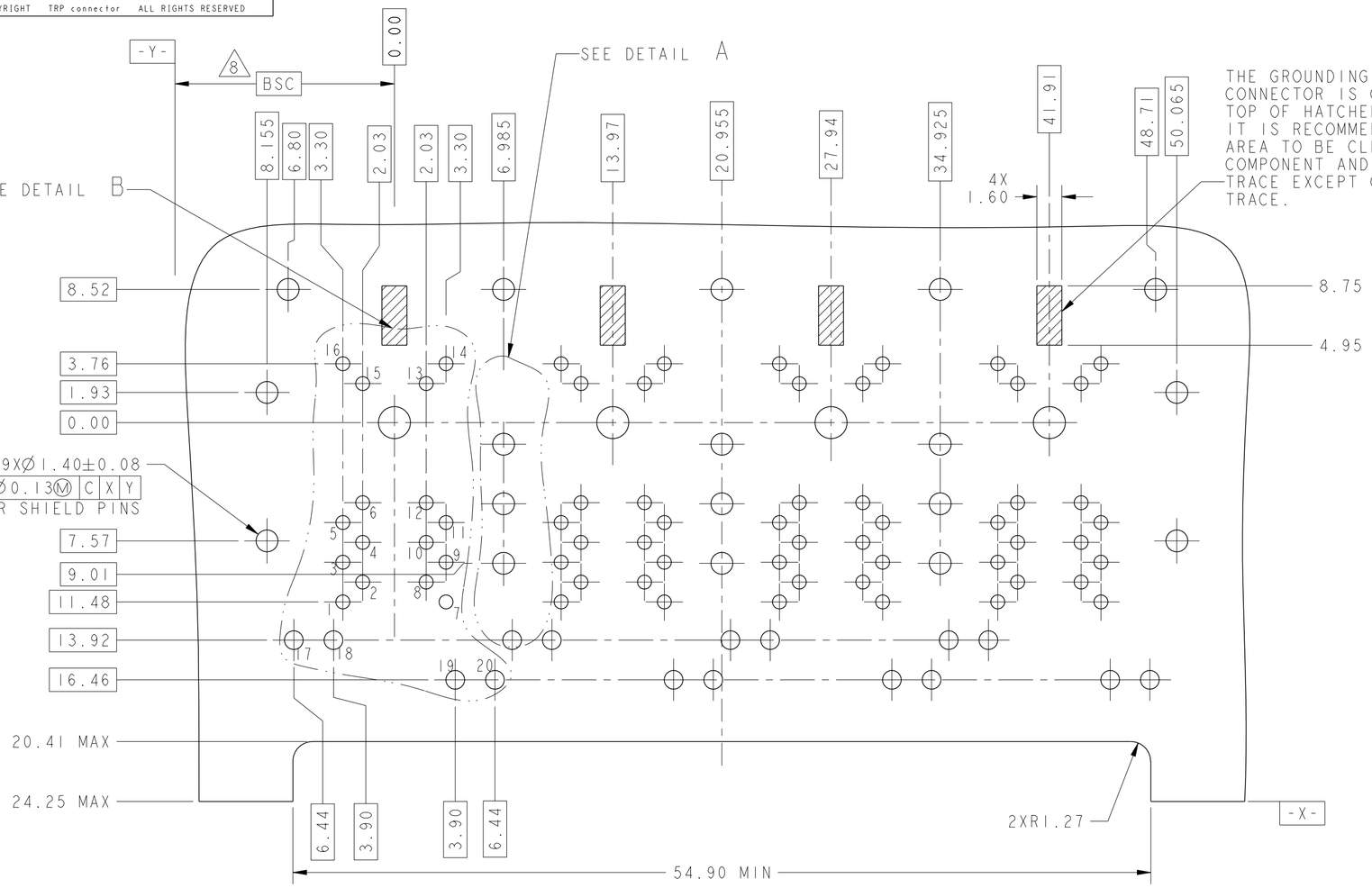
SIZE A2 | CAGE CODE | DRAWING NO C-2250580 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 2 | REV D

xxxxx

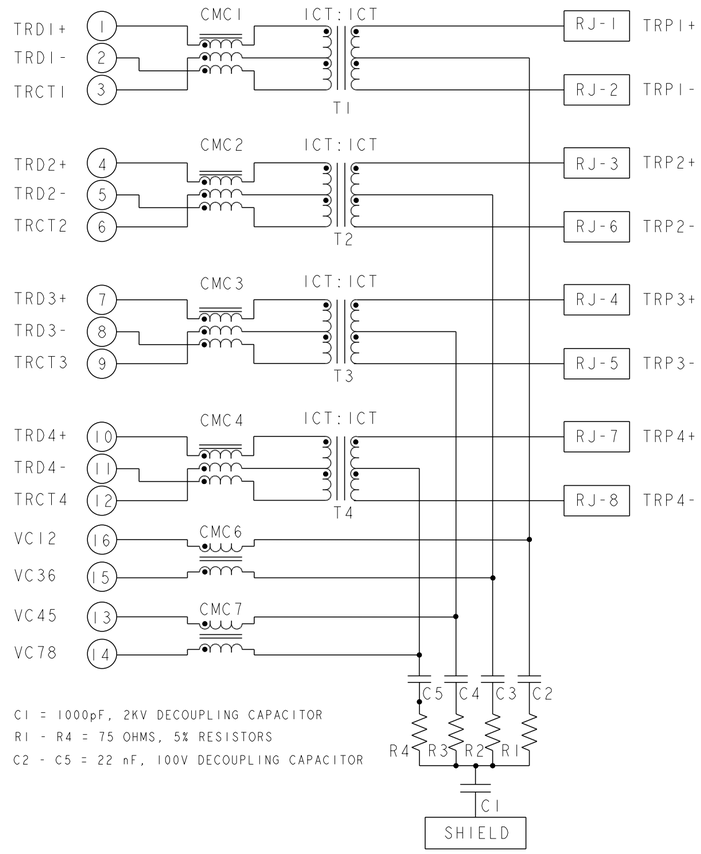
Please read our datasheet & drawing disclaimer here.

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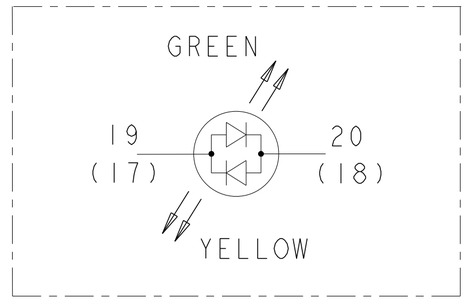
RECOMMENDED PC BOARD LAYOUT
(VIEWED FROM COMPONENT SIDE)

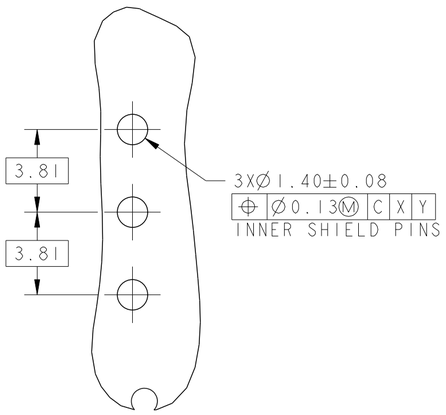
4UTG02 10 GIGABIT 100W 4PPOE CIRCUIT ⚠2



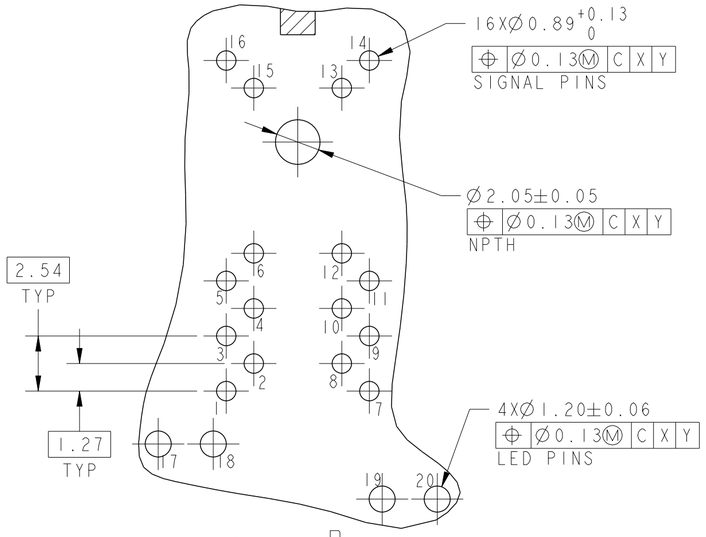
C1 = 1000pF, 2KV DECOUPLING CAPACITOR
R1 - R4 = 75 OHMS, 5% RESISTORS
C2 - C5 = 22 nF, 100V DECOUPLING CAPACITOR

BI-COLOR LED ⚠7





DETAIL A
3X
SCALE 5:1



DETAIL B
4X
SCALE 5:1

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN TOWER YU 05FEB2018	trp CONNECTOR a bel group — DONGGUAN CHINA
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25; 1 PLC ±0.25; 2 PLC ±0.25; 3 PLC ±0.25; 4 PLC ±0.25; ANGLES ±.	CHK BILL LIU 05FEB2018	
		APVD TONY YUAN 05FEB2018	
PRODUCT SPEC 108-104004	APPLICATION SPEC -	MODEL NAME MAGJACK GANG 4PPoE	DESC 1X4 4UTG02 10G 100W 4PPOE TAB DOWN W/ LED
		SIZE A2	CAGE CODE — DRAWING NO C-2250580 — RESTRICTED TO -
		CUSTOMER DRAWING	SCALE NTS — SHEET 2 OF 2 — REV D

xxxxx