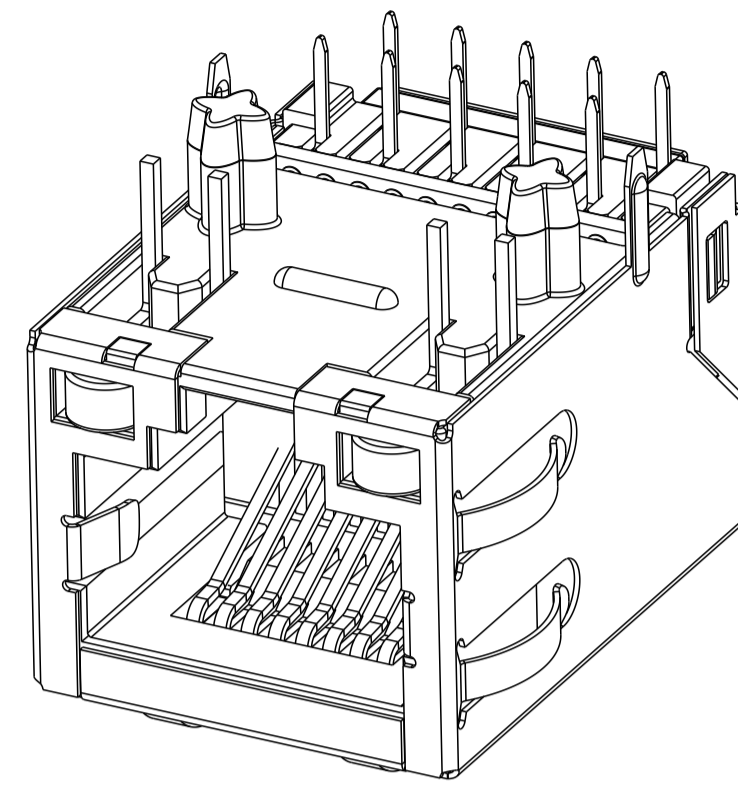
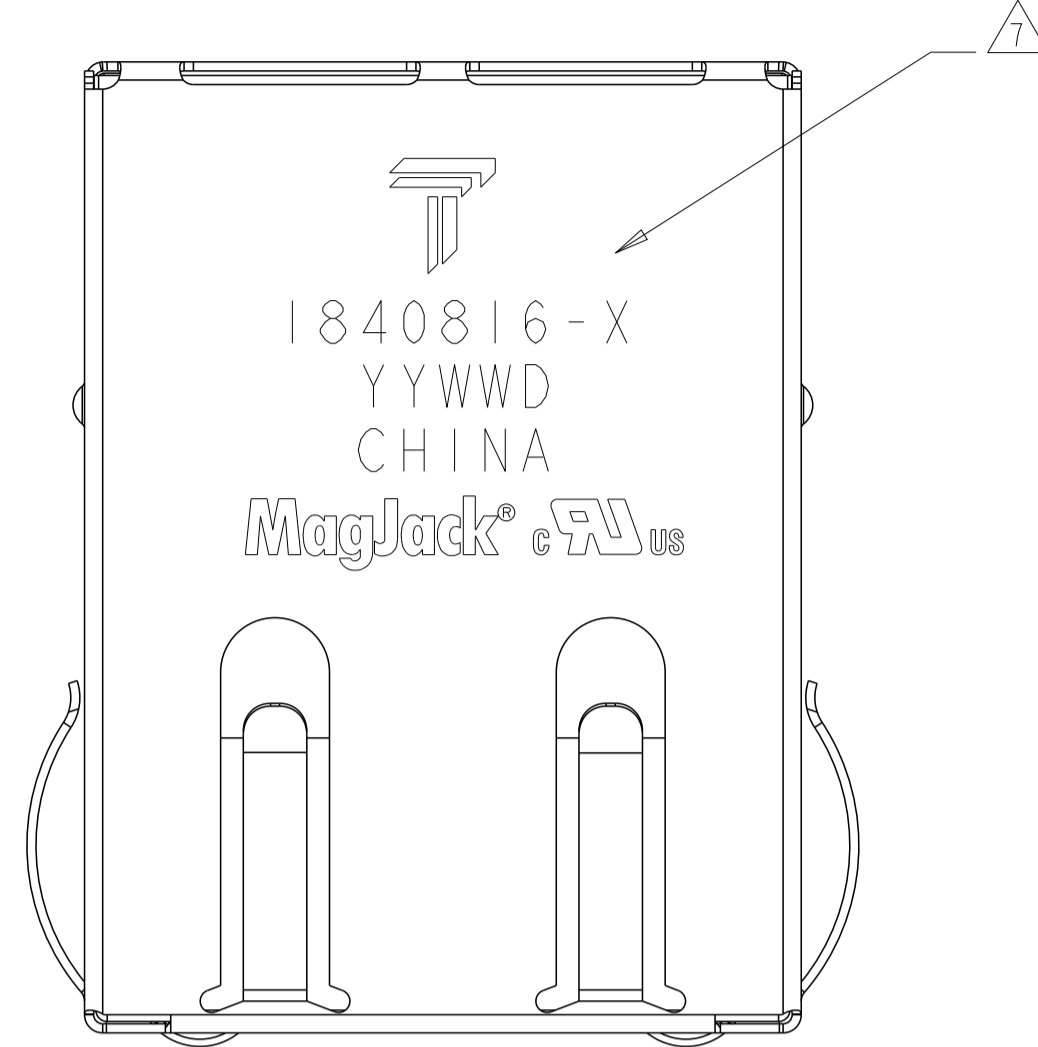


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
 5736910 5939955 6425781 6428361 6554638 6840817 7123117
 7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS				
P.	LTN	DESCRIPTION	DATE	APPV
E		EC-1411035 COMPANY LOGO CHANGE	08JAN2015	RL TY



SCALE 4:1

1. MATERIALS
- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS 0.20mm THICK, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 2.54um MIN SAC SOLDER.
 - CONTACTS: PHOSPHOR BRONZE 0.46mm X 0.30mm, 1.27um MIN OVERALL NICKEL UNDERPLATE, WITH SELECTIVE 1.27um MIN HARD GOLD FINISH PLATE.
 - SOLDER TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, 3um TIN PLATE
 - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN. SILVER PLATE OVER 1.02mm MIN. NICKEL OVER 1.02mm MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05um MIN. MATTE TIN.

2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUB PART F.

3. MAGNETICS
- APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN. @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25°C:
 - INSERTION LOSS (IL): 1.1dB MAX. FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20LOG(f/80)dB MIN. FROM 40.1MHz TO 100MHz
 - 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 FOR 60 SECONDS WITH A RISE TIME OF 500 V/SEC

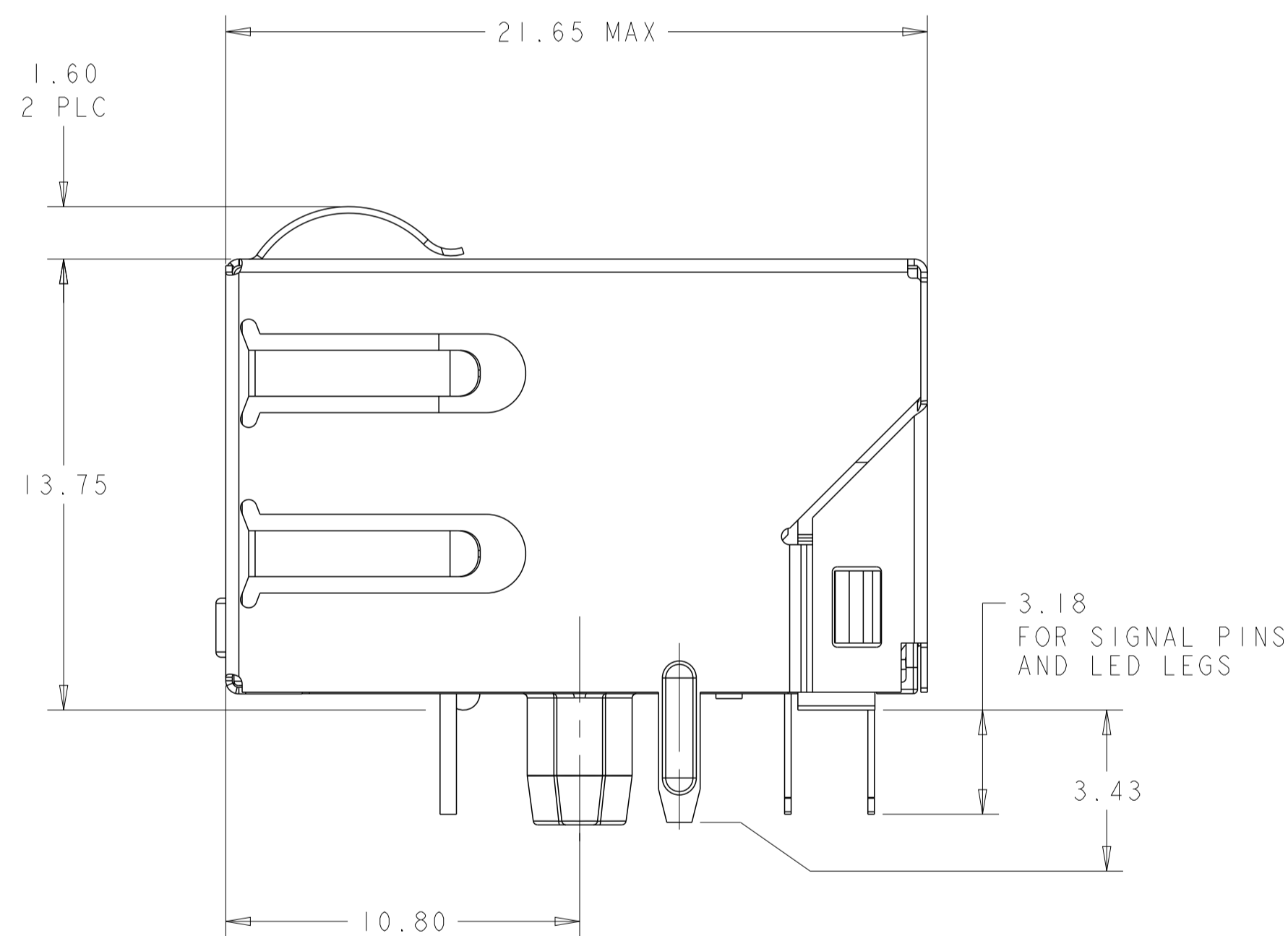
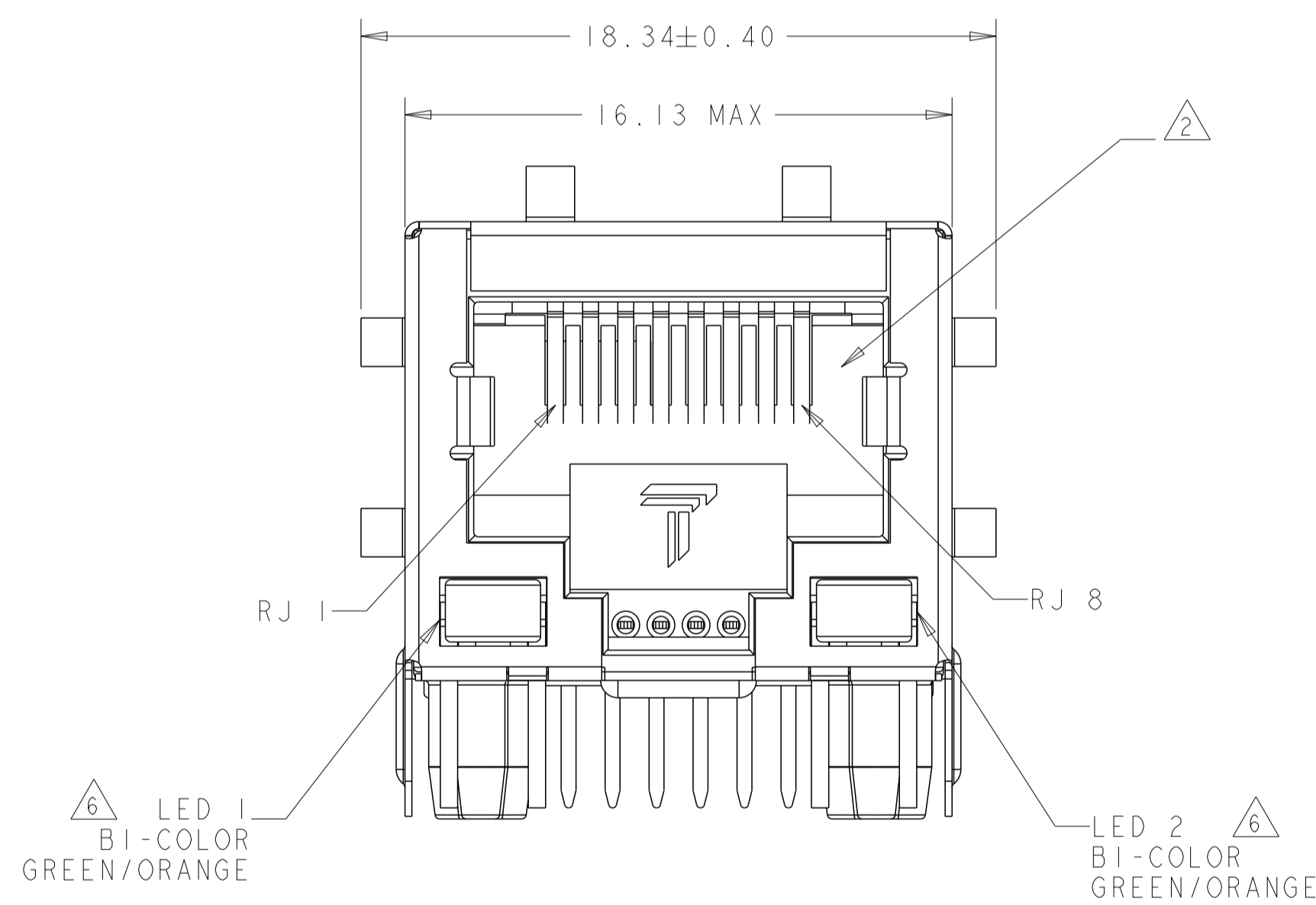
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

5. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.

6. LEADS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
 LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF = 20mA
 DOMINATE WAVELENGTH (λD): ORANGE 608 nm TYP. AT IF = 20mA
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF = 20mA

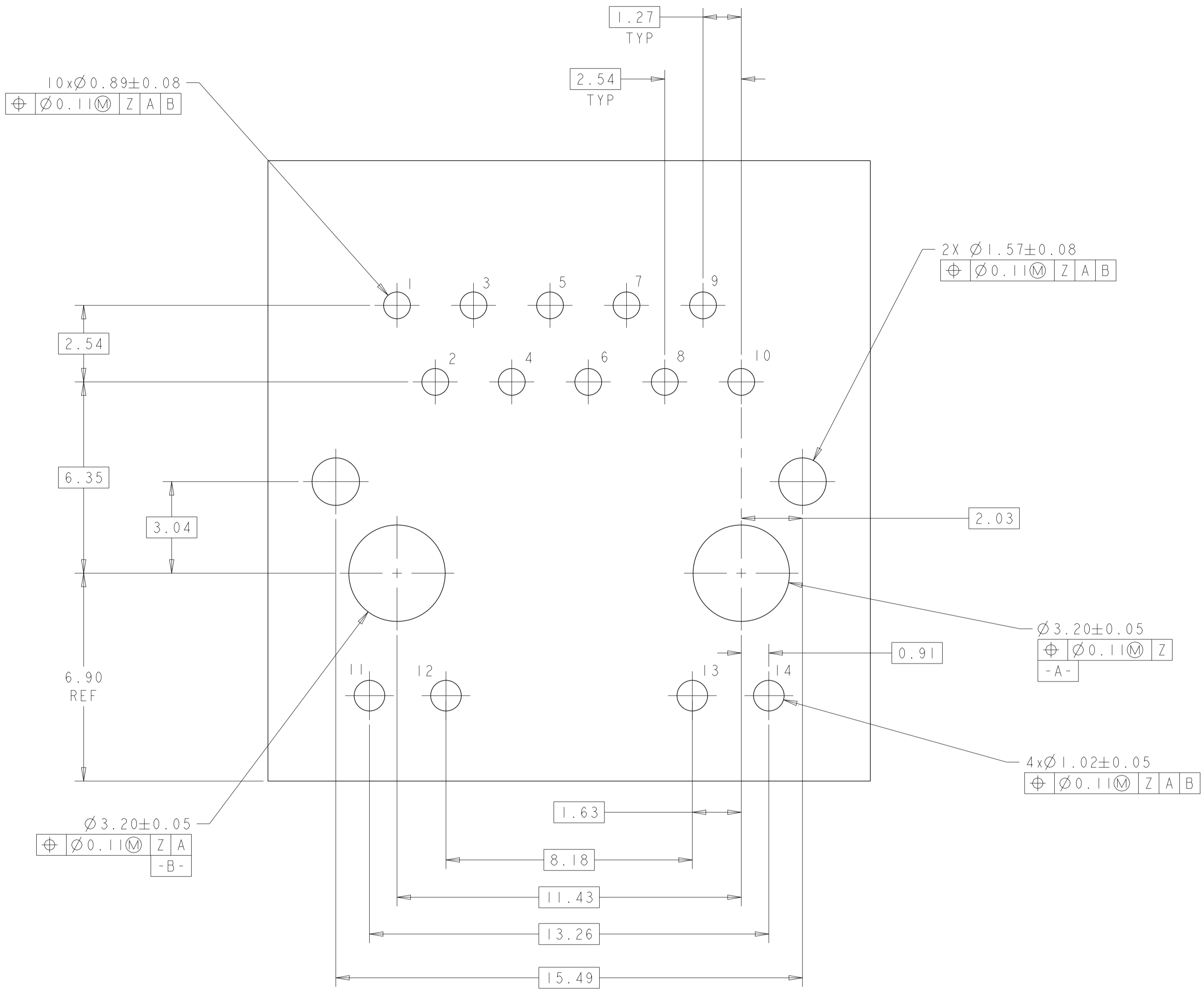
7. TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
 DATE CODE: YYWW "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.

8. THIS PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX. 10 SECONDS MAX.

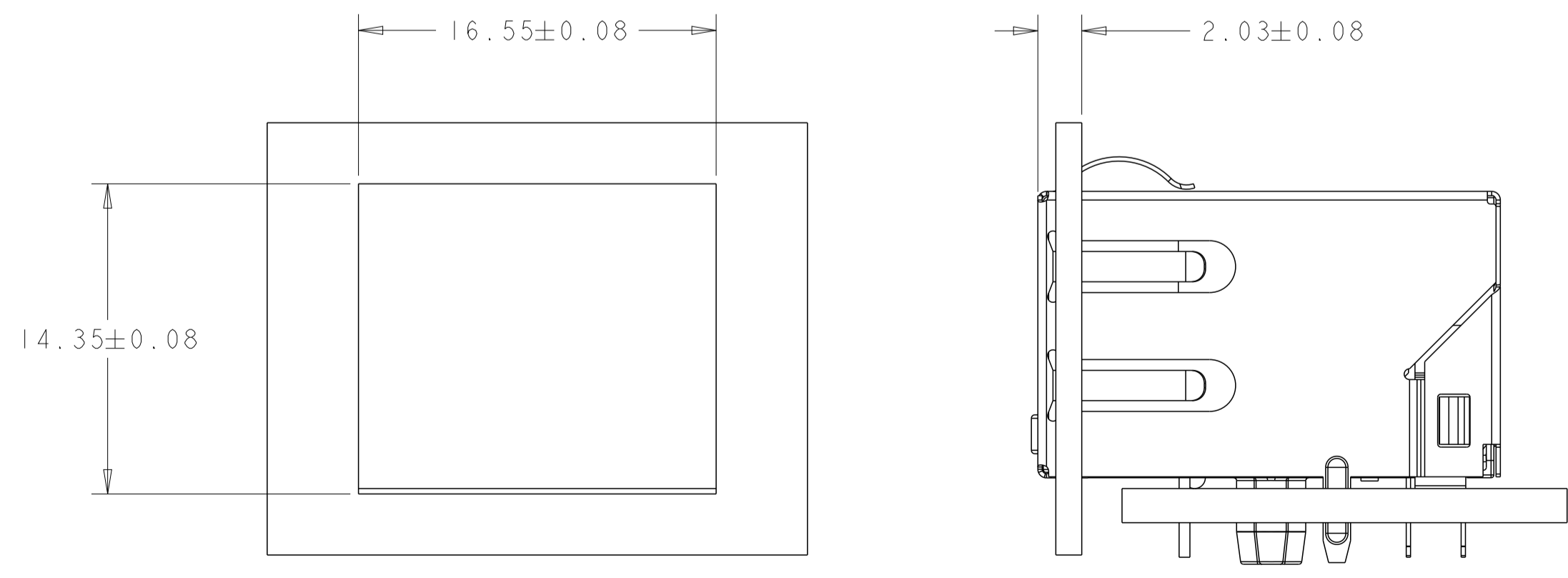


1840816-1
PART NO.

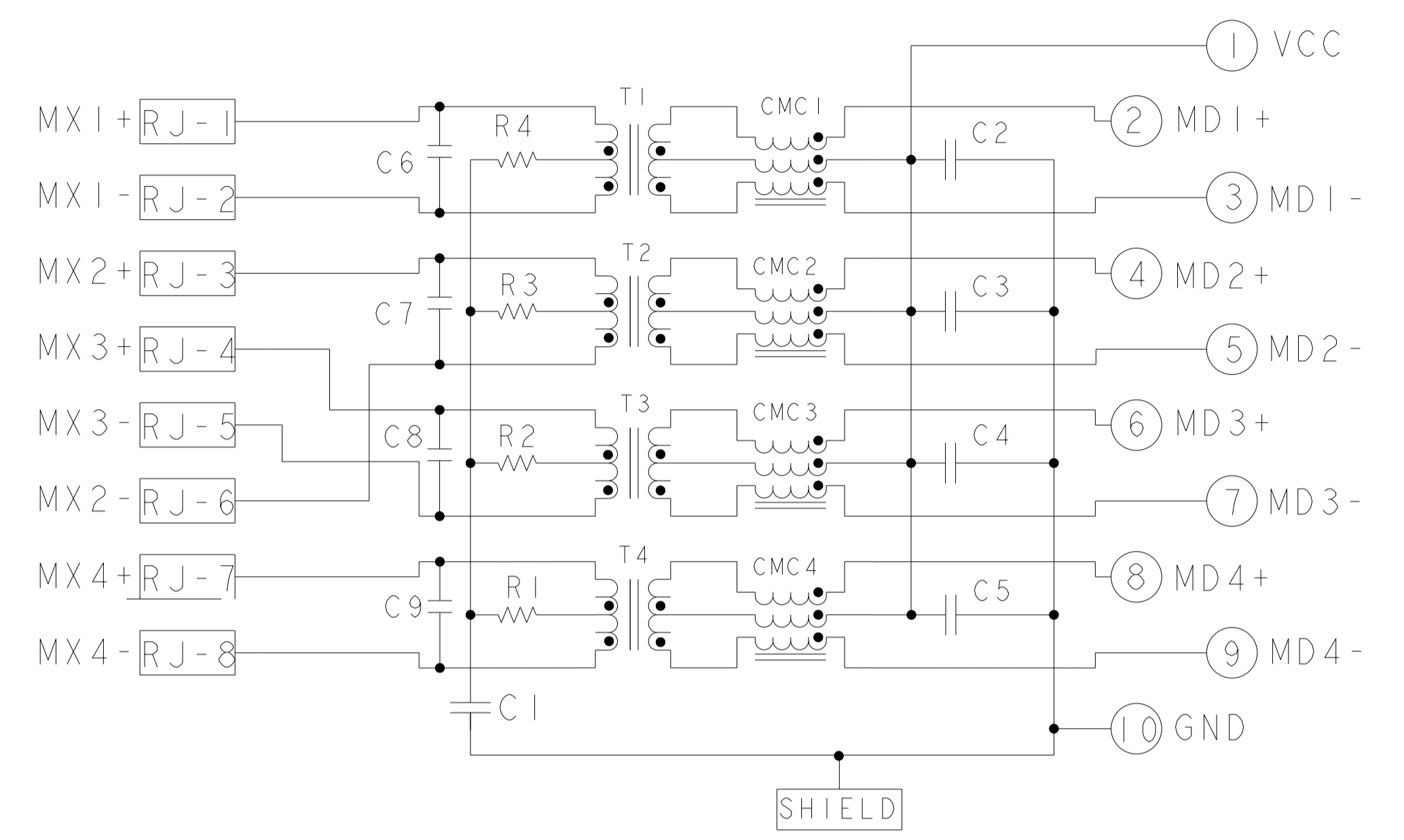
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 280CT2011	 DONGGUAN CHINA
DIMENSIONS: mm		CHK TOWER YU/FRANK LIU 280CT2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD HEITH ZHU 280CT2011	MODEL NAME MAGJACK
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ± APPLICATION SPEC ±		DESC 1X1 4G110 GIGABIT TAB DOWN W/ LED	SIZE CAGE CODE DRAWING NO A1 RESTRICTED TO -
PRODUCT SPEC 108-104004		CUSTOMER DRAWING SCALE 4:1 SHEET 1 OF 2 REV E	©=1840816



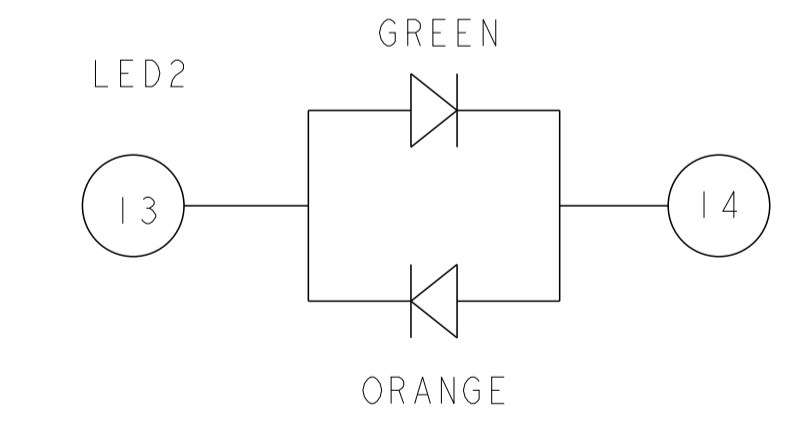
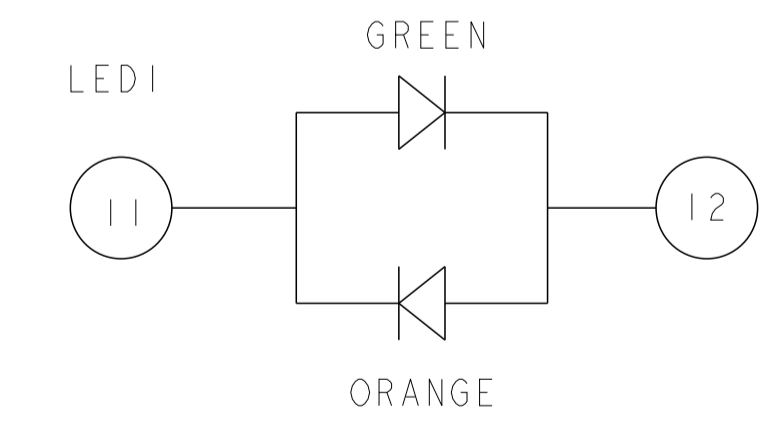
SUGGESTED PCB LAYOUT
COMPONENT SIDE



4G110 GIGABIT CIRCUIT



C1=1000pF, 2kV, CAPACITOR
 C2 - C5=0.1uF, CAPACITORS
 R1 - R4=75 Ohms, RESISTORS
 C6 - C9 = 5.6 pF, CAPACITORS



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: ROY LIU 280CT2011	trp CONNECTOR a bel group	DONGGUAN CHINA
DIMENSIONS: mm		CHK: TOWER YU/FRANK LIU 280CT2011		DESC: 1X1 4G110 GIGABIT TAB DOWN W/ LED
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: HEI TH ZHU 280CT2011	MODEL NAME: MAGJACK	SIZE: A1
0 PLC ± 0.25 1 PLC ± 0.25 2 PLC ± 0.25 3 PLC ± 0.25 4 PLC ± 0.25 ANGLES ± 0.1 APPLICATION SPEC ± 0.1		PRODUCT SPEC: 108-104004	SINGLE Non-PoE	SCALE: 4:1
			C=1840816	SHEET 2 OF 2
			CUSTOMER DRAWING	REV E