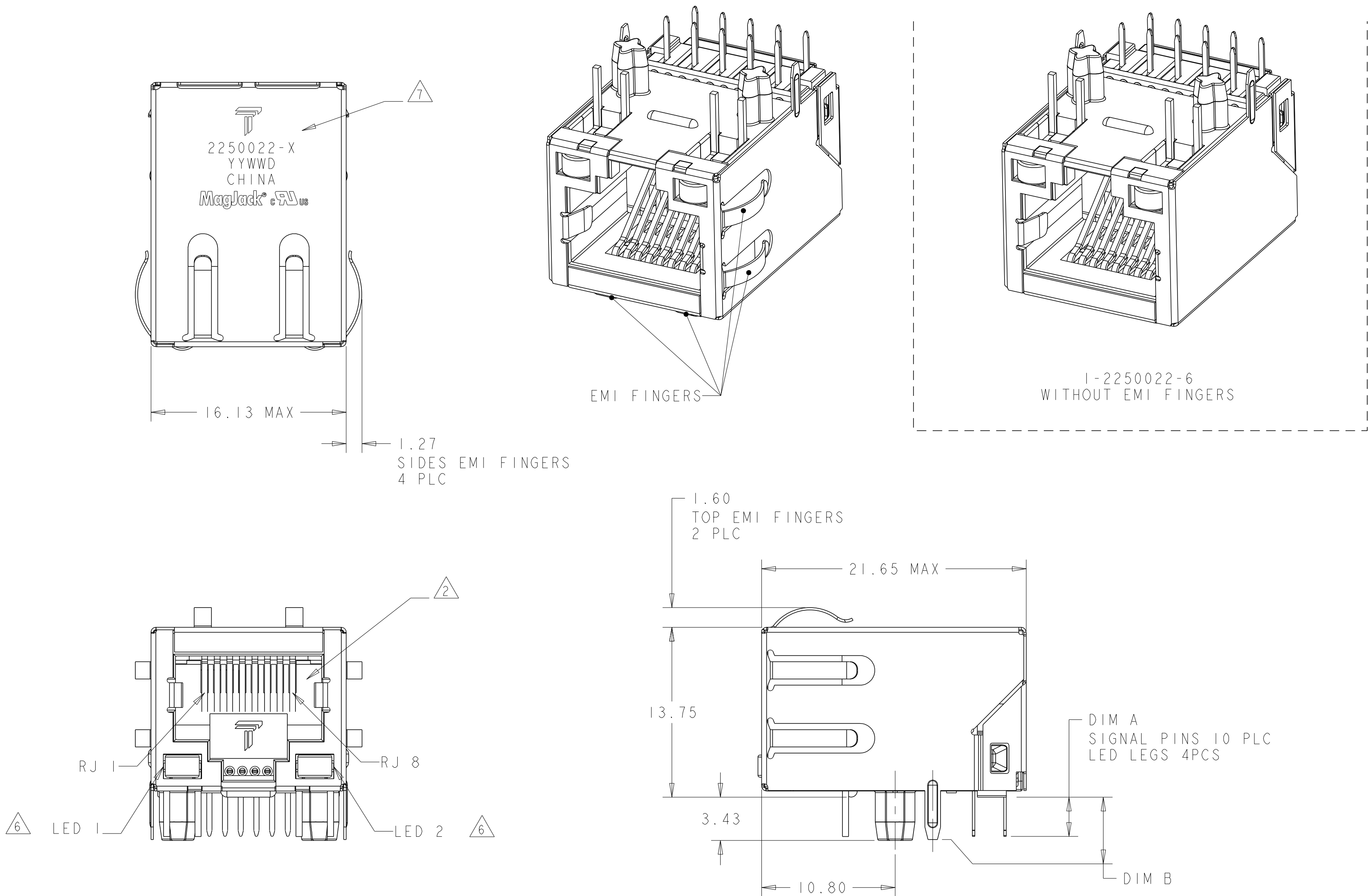


D

C

B

A



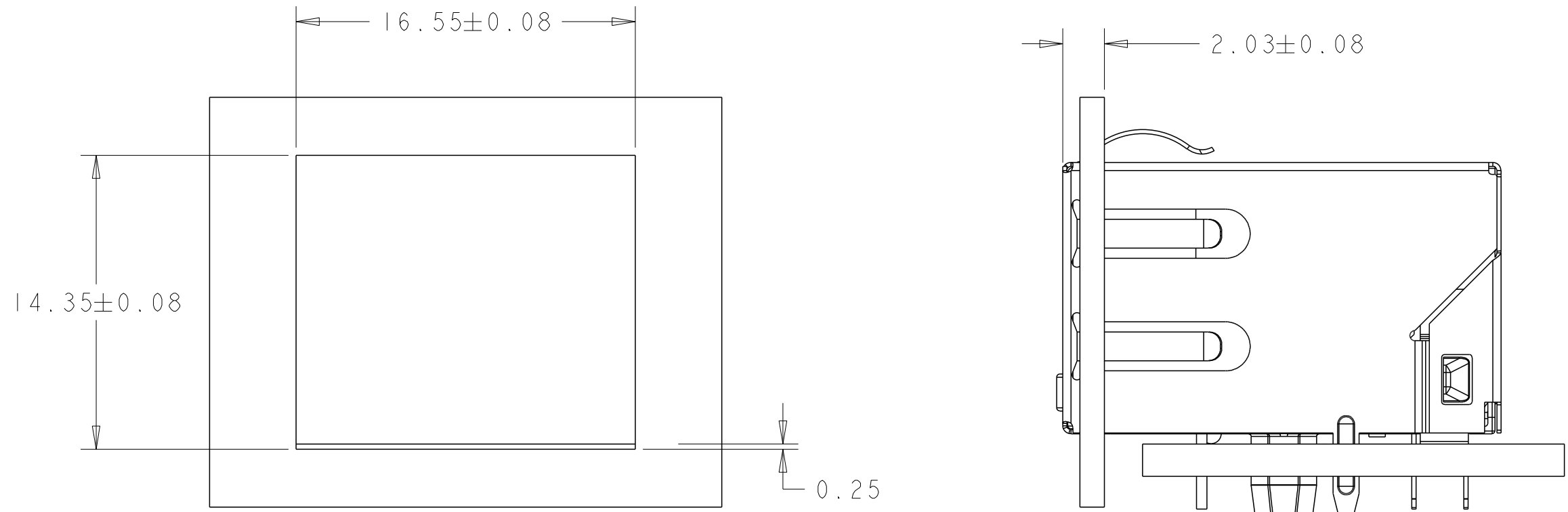
1. MATERIALS
- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS 0.20mm THICK, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 2.54um MIN SAC SOLDER.
 - CONTACTS: PHOSPHOR BRONZE 0.46mm X 0.30mm, PHOSPHOR BRONZE, 1.27um MIN NICKEL UNDERPLATE, WITH 1.27um MIN GOLD PLATING AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS,
 - SOLDER TAILS: 0.25mmTHICK, 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 1.02um MIN. NICKEL OVER 1.02um MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05um MIN. MATTE TIN, TIP TIN DIPPING.
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. THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS. IF LEDS WITHOUT 250 OHM RESISTORS. LEDS 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): YELLOW 588 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF = 20mA
DOMINATE WAVELENGTH (λD): AMBER 590±3 nm AT IF = 20mA
FORWARD VOLTAGE (VF): AMBER 2.1V at IF = 20mA
DOMINATE WAVELENGTH (λD): ORANGE 605 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF = 20mA
DOMINATE WAVELENGTH (λD): ULTRA LOW WAVELENGTH GREEN (ULWG) 525 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): ULTRA LOW WAVELENGTH GREEN (ULWG) 2.8V TYP. at IF = 20mA
BUILT-IN 250 OHM RESISTORS. LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V
FORWARD CURRENT (IF): GREEN 12mA TYP @ VF = 5V
DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V
FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF = 5V

7. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

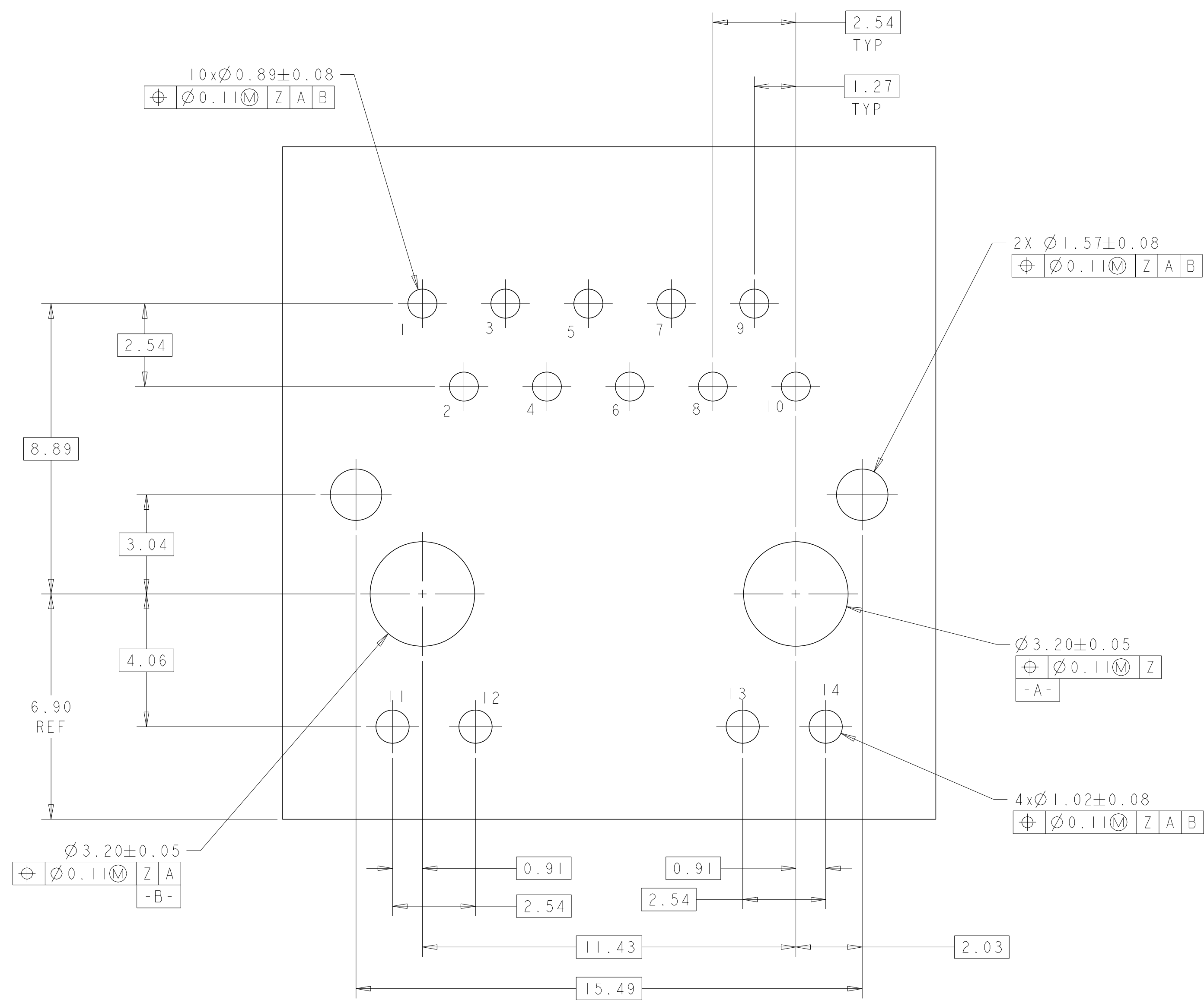
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.

WITHOUT	NORMAL TEMPERATURE	3.43	3.18	GREEN	YELLOW	NO	GREEN	YELLOW	NO	1-2250022-6
TOP AND SIDES	HIGH TEMPERATURE	3.43	3.68	GREEN	-	NO	GREEN	-	NO	1-2250022-5
TOP AND SIDES	HIGH TEMPERATURE	4.19	4.19	GREEN	-	NO	YELLOW	-	NO	1-2250022-4
TOP AND SIDES	NORMAL TEMPERATURE	3.43	3.68	ULWG	AMBER	NO	ULWG	AMBER	NO	1-2250022-3
TOP AND SIDES	HIGH TEMPERATURE	3.43	3.68	GREEN	-	NO	YELLOW	-	NO	1-2250022-2
TOP AND SIDES	NORMAL TEMPERATURE	3.43	3.68	GREEN	-	NO	GREEN	-	NO	1-2250022-1
TOP AND SIDES	NORMAL TEMPERATURE	4.19	4.19	ULWG	AMBER	NO	ULWG	AMBER	NO	1-2250022-0
TOP AND SIDES	NORMAL TEMPERATURE	3.43	2.30	GREEN	YELLOW	NO	GREEN	-	YES	2250022-9
TOP AND SIDES	NORMAL TEMPERATURE	3.43	3.68	GREEN	-	NO	YELLOW	-	NO	2250022-8
TOP AND SIDES	NORMAL TEMPERATURE	3.43	2.30	GREEN	YELLOW	NO	GREEN	-	NO	2250022-7
TOP AND SIDES	HIGH TEMPERATURE	3.43	2.30	GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250022-6
TOP AND SIDES	HIGH TEMPERATURE	3.43	3.68	GREEN	-	YES	GREEN	-	YES	2250022-5
TOP AND SIDES	NORMAL TEMPERATURE	3.43	3.68	GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250022-4
TOP AND SIDES	NORMAL TEMPERATURE	3.43	2.30	GREEN	ORANGE	NO	YELLOW	-	NO	2250022-3
TOP AND SIDES	NORMAL TEMPERATURE	3.43	2.30	GREEN	-	YES	GREEN	-	YES	2250022-2
TOP AND SIDES	NORMAL TEMPERATURE	3.43	2.30	GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250022-1
SHIELD EMI FINGERS	HOUSING TEMPERATURE TYPE	DIM B	DIM A	11-12	12-11	250 OHMS RESISTOR [△] ₆	13-14	14-13	250 OHMS RESISTOR [△] ₆	PART NUMBER
				LED 1			LED 2			

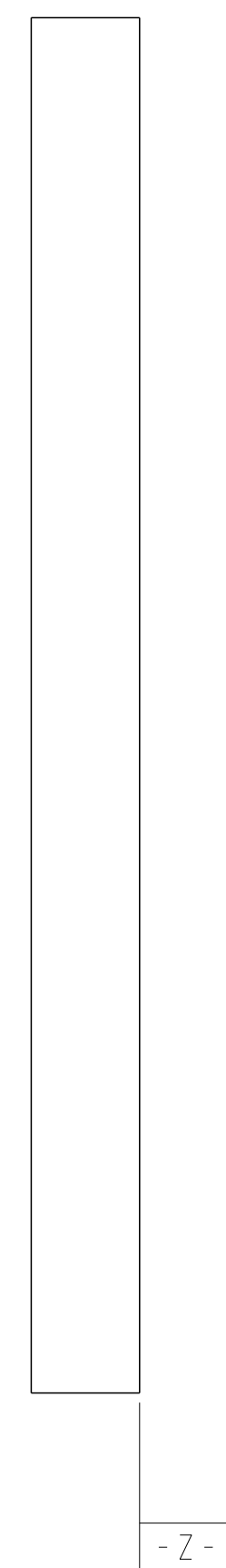


SUGGESTED PANEL CUTOUT
SCALE 4:1

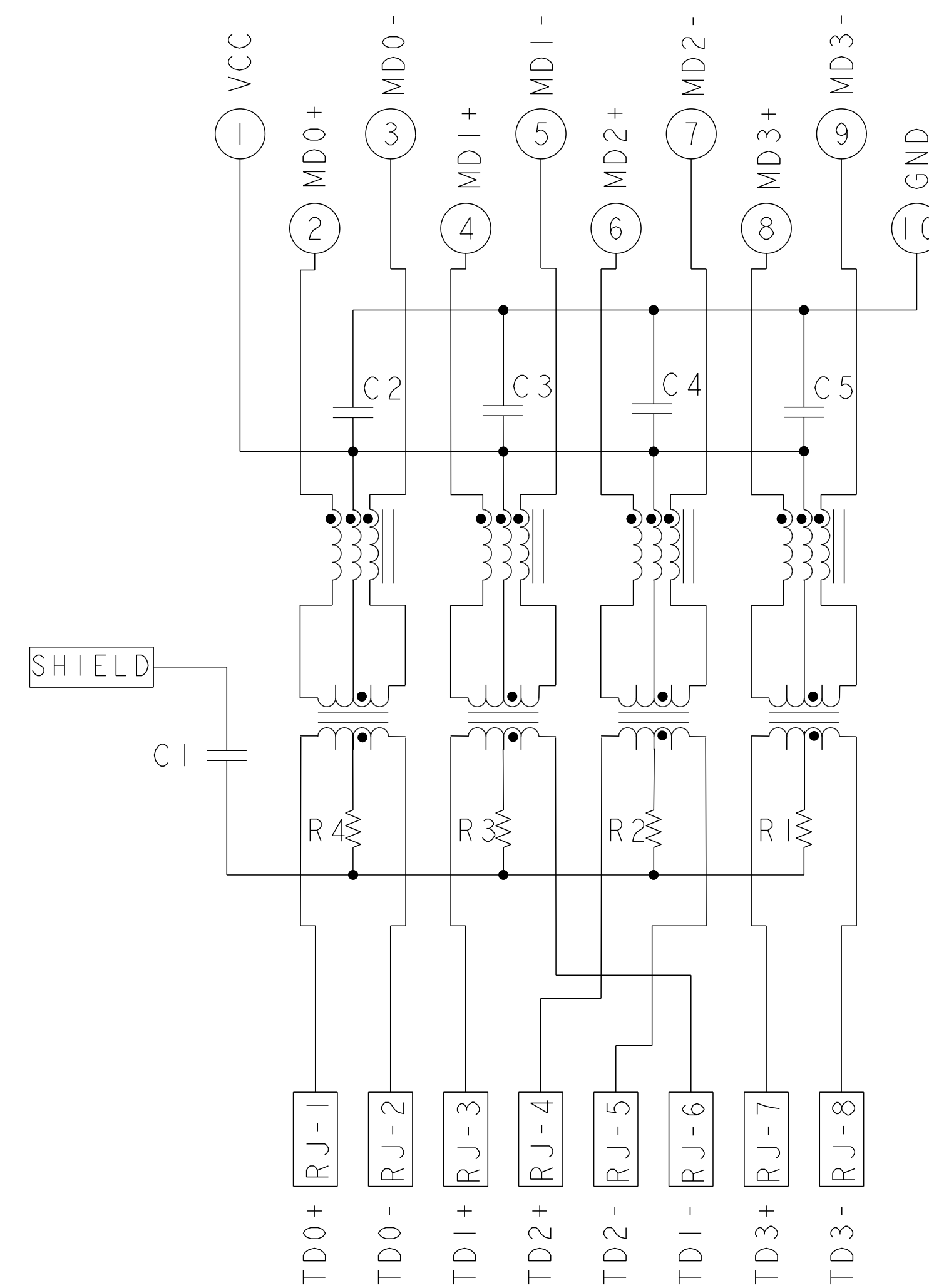
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN ROY LIU 20MAY2013	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TOWER YUFRANK LIU 20MAY2013				
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°		APVD TONY YUAN 20MAY2013	MODEL NAME MAGJACK		DESC 1X1 4G46PI GIGABIT TAB DOWN W/ LED	
PRODUCT SPEC 108-104004		SINGLE Non-PoE		SIZE A1	CAGE CODE C=2250022	RESTRICTED TO -
CUSTOMER DRAWING		SCALE 4:1		SHEET 1 OF 2		REV B



SUGGESTED PCB LAYOUT
COMPONENT SIDE



4G46P | GIGABIT CIRCUIT



C1=1000pF, 2kV, CAPACITOR
R1-R4=75 Ohms, RESISTORS
C2-C5=0.1uF, 50V CAPACITOR

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN RORY LIU 20MAY2013 CHK POWER YU/FRANK LIU 20MAY2013 APP'D TONY YUAN 20MAY2013 MODEL NAME MAGJACK		 trp CONNECTOR α bel group DONGGUAN CHINA	
DIMENSIONS: mm 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±. 4 PLC ±. ANGLES *		DESC 1X1 4G46P1 GIGABIT TAB DOWN W/ LED	
PRODUCT SPEC 108-104004		APPLICATION SPEC SINGLE Non-PoE		SIZE A1	CAGE CODE C=2250022
		CUSTOMER DRAWING		SCALE 4:1	SHEET 2 OF 2
				REV A	