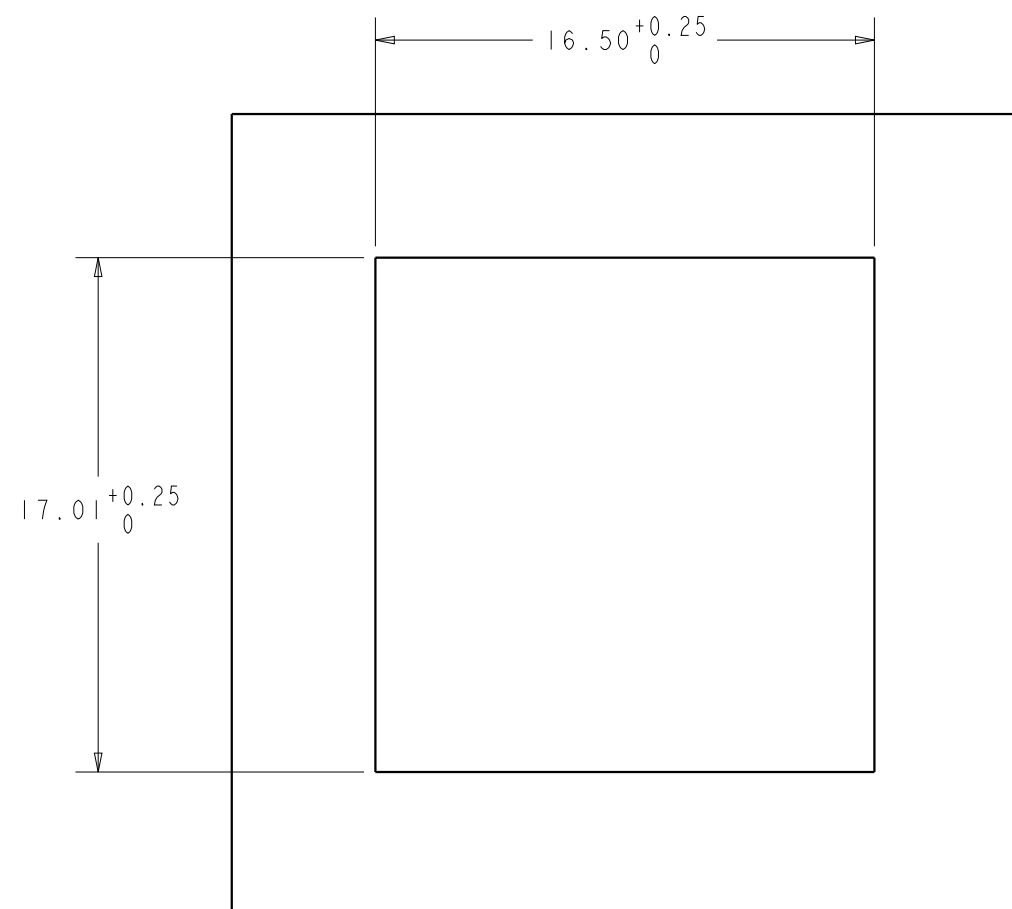
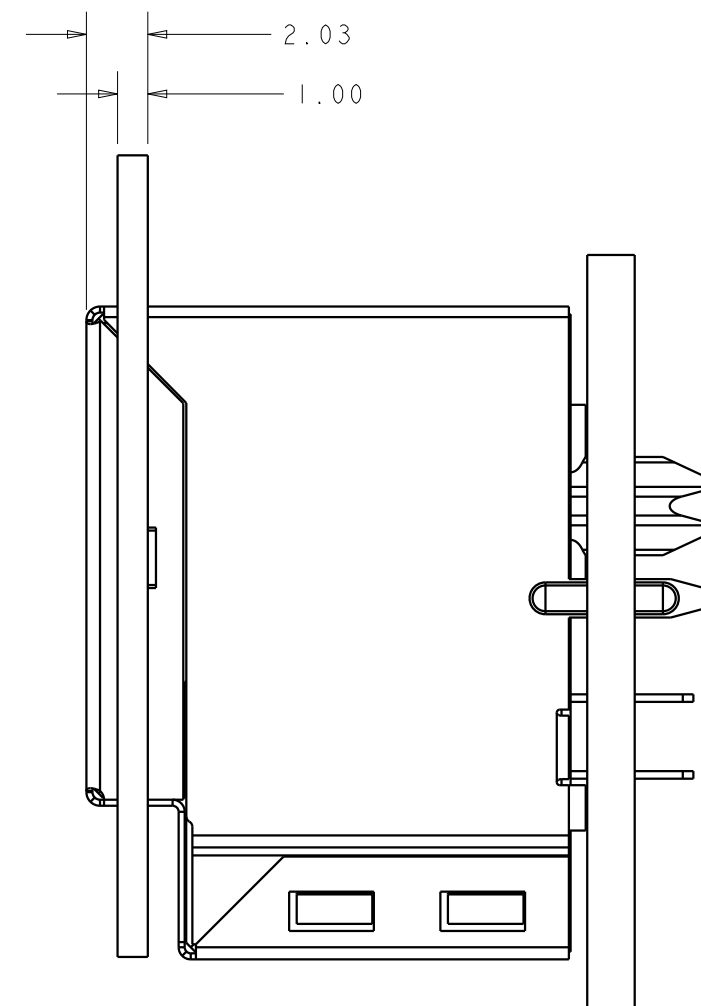
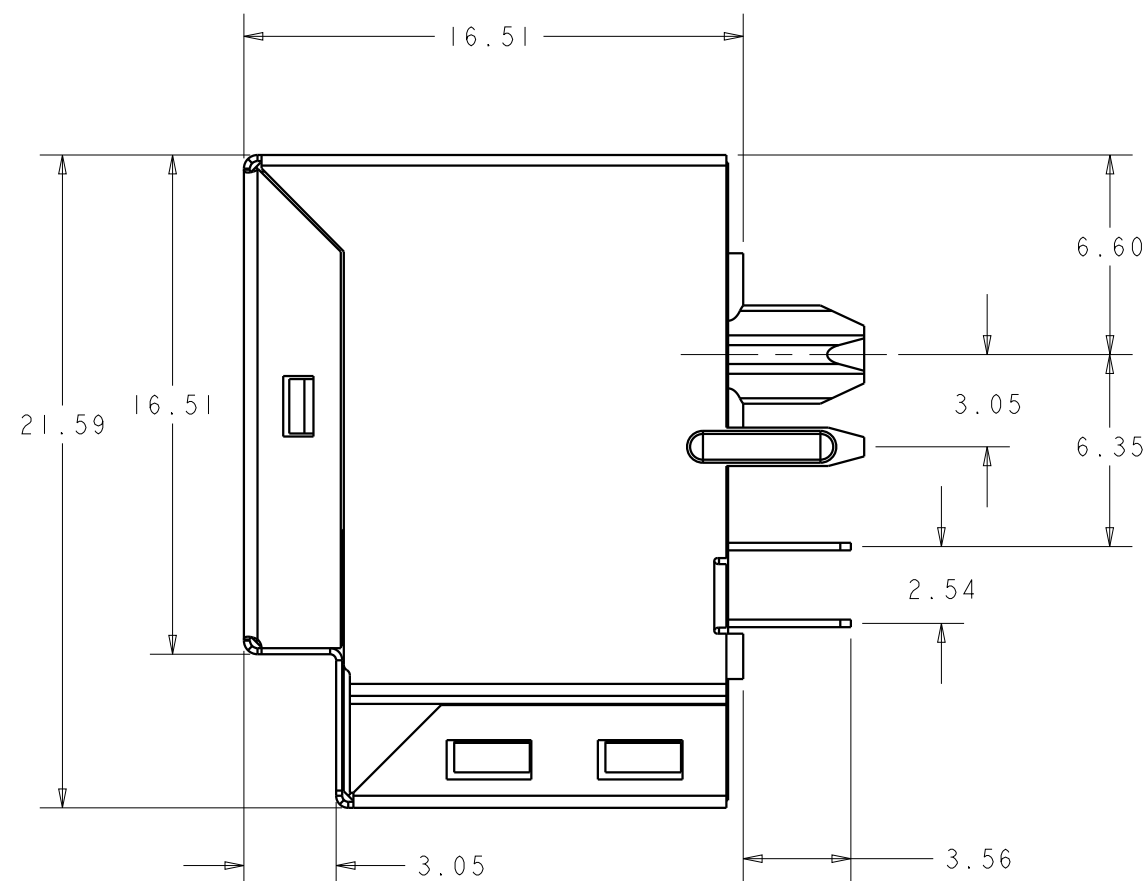
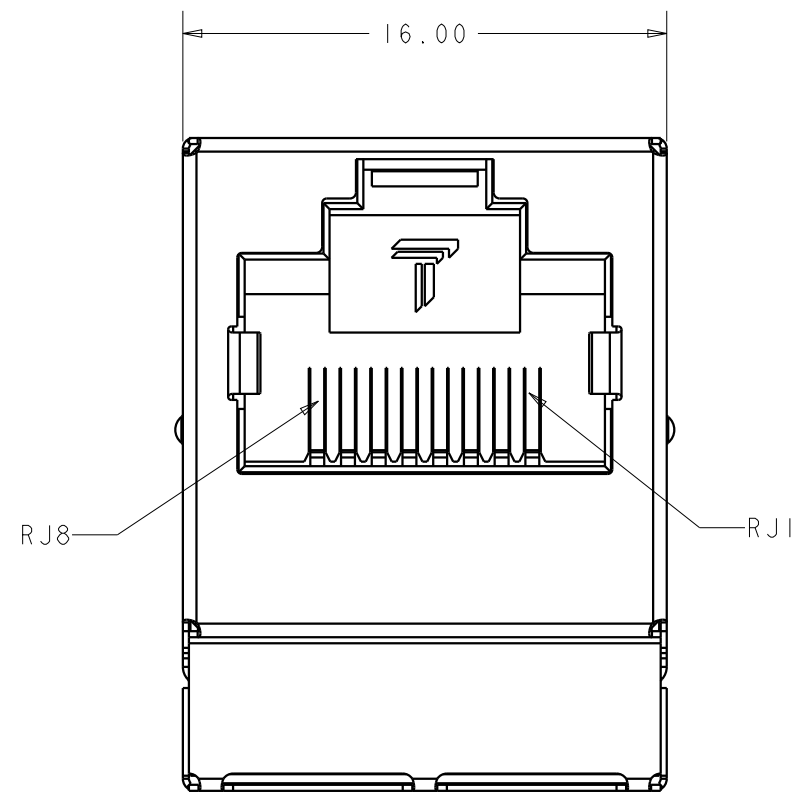
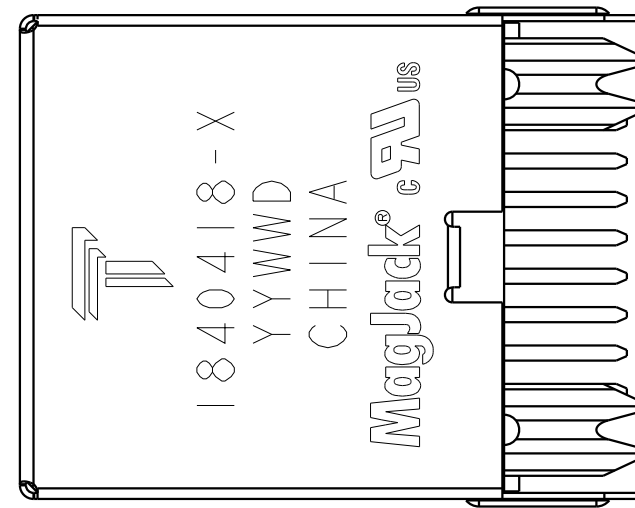
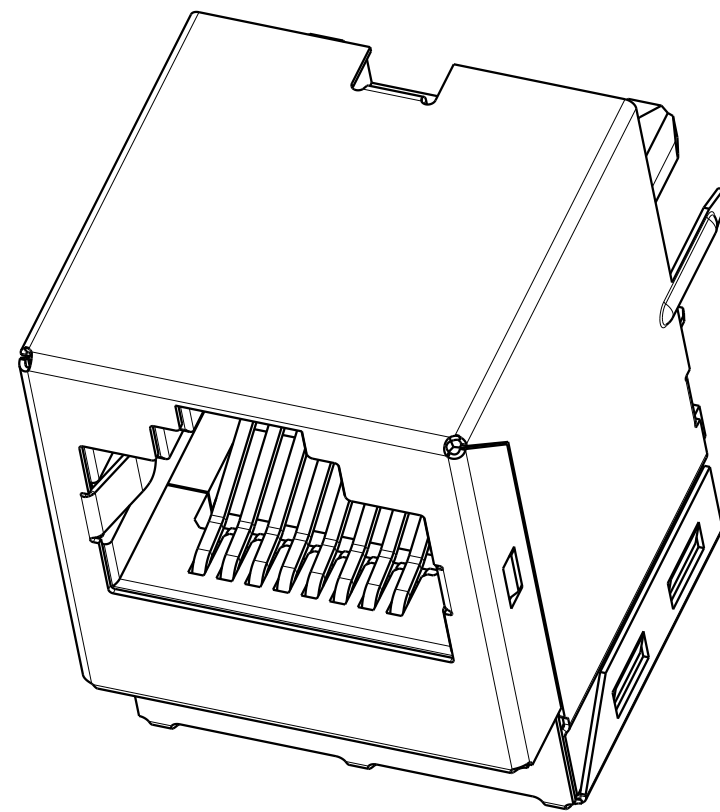


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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	LTR	DESCRIPTION	DATE	DWN	APVD
	F	EC-1411035, LOGO CHANGE	26DEC2014	JC	TY



1. MATERIALS

HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATED UL 94V-0

SHIELD: BRASS, 0.20mm THICK,
PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.

CONTACT: PHOSPHOR BRONZE,
WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE

SOLDER TAIL: PHOSPHOR BRONZE,
WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
PLATED WITH 2.54um MIN TIN

2 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(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

3 THE MAGNETIC ARE SYMMETRICAL AND SUPPORT AUTO-MDIX OPERATION.

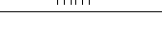
4. OPERATING TEMPERATURE: 0 ~ 70°C

5. ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED

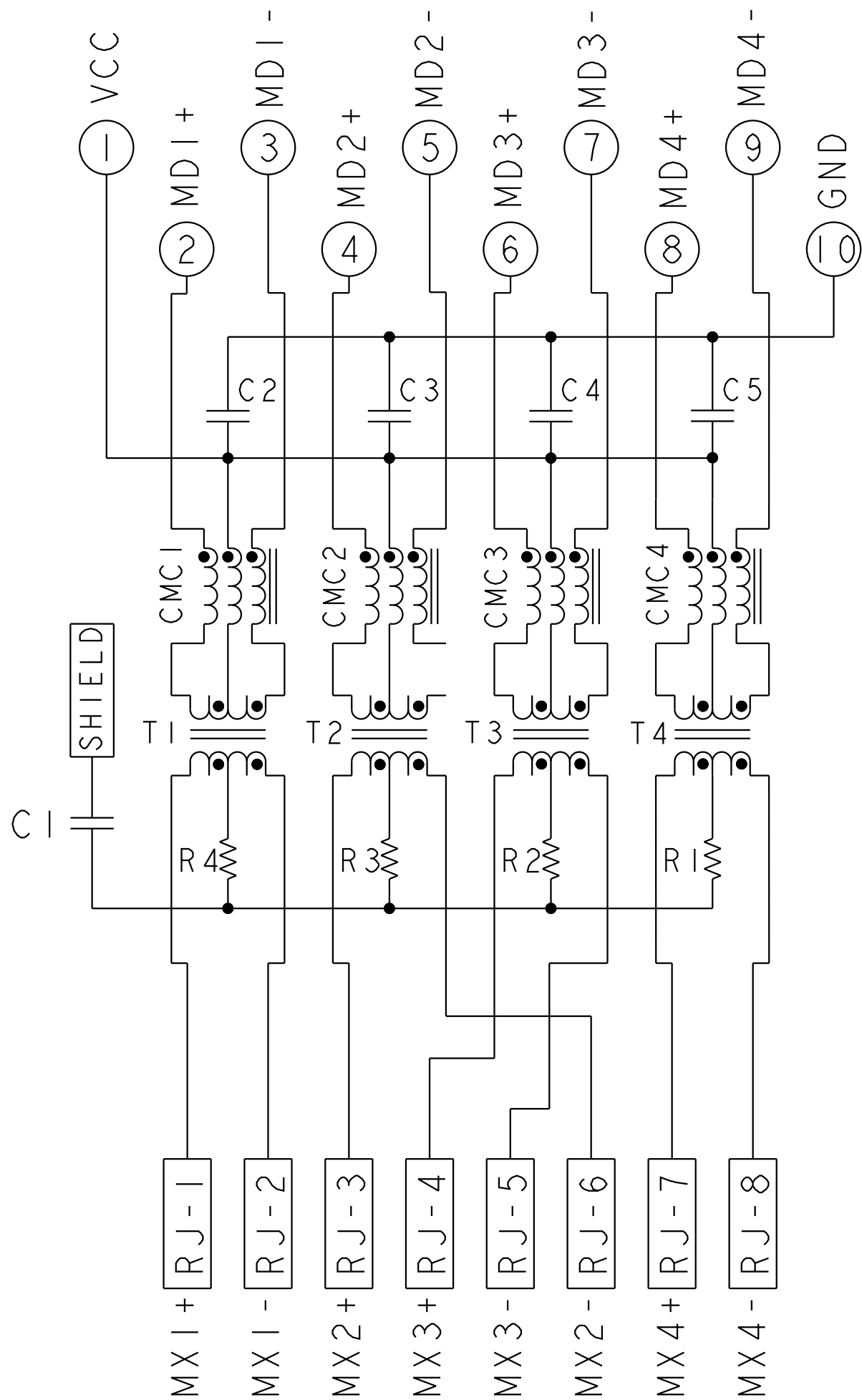
6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

7 THE 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.

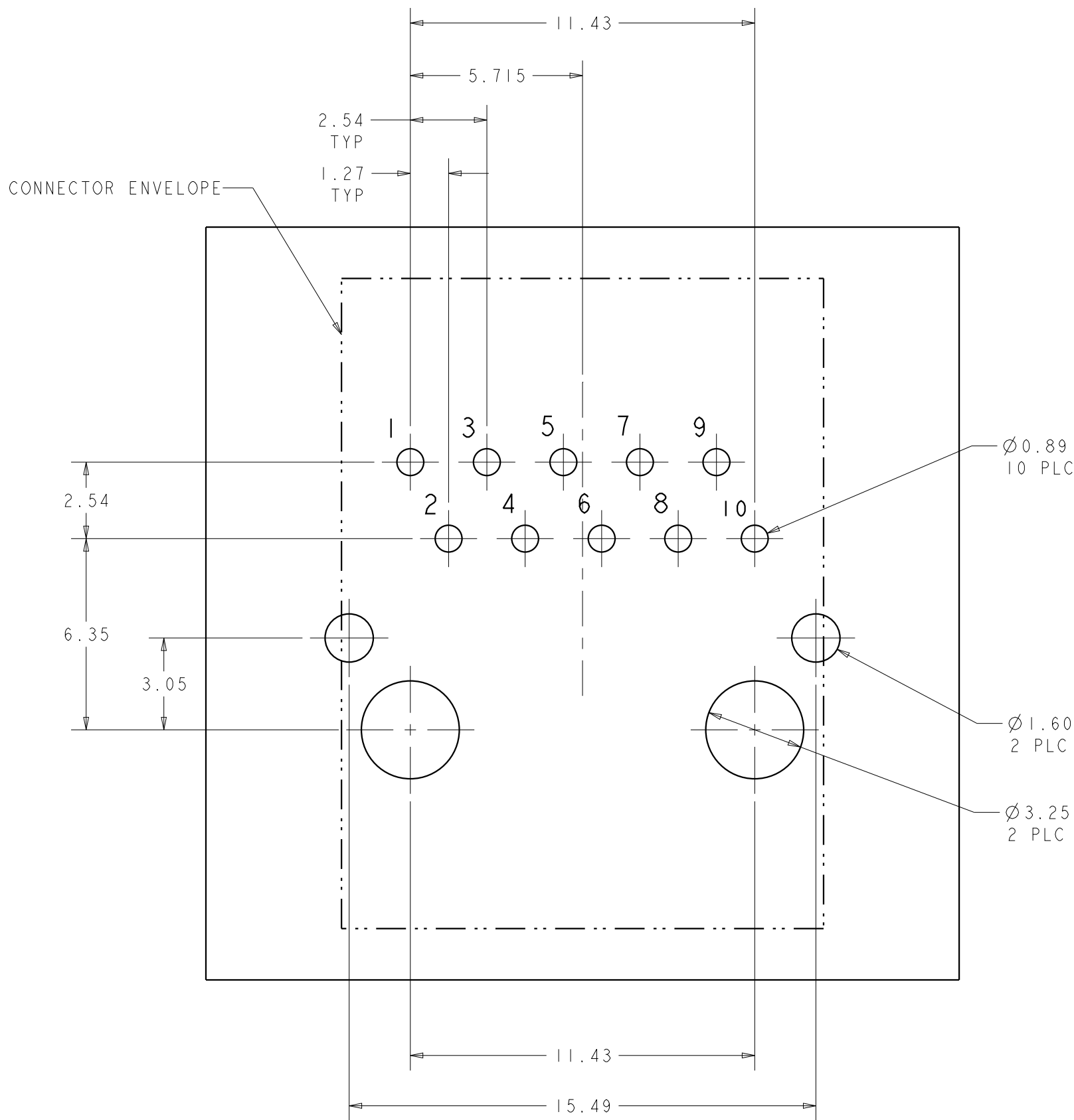
8 THE PART 1-1840418-1 IS COMPLIANT WITH IR REFLOW SOLDERING PROCESS,
PEAK SOLDERING TEMPERATURE 260°C MAX DURATION TIME 10 SECONDS MAX, OVER
230°C WITHIN 40-60 SECONDS.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN 18AUG2006		 trp CONNECTOR a bel group		DONGGUAN CHINA							
		CHR KEITH ZHU 18AUG2006											
		APVD TEDDY XIANG 18AUG2006											
DIMENSIONS: mm 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ±		MODEL NAME MAGJACK SINGLE NON-POE		DESC 1X1, MAGJACK, VERTICAL 4G46PI, GIGABIT CIRCUIT, W/O LEDS							
PRODUCT SPEC 108-2100		APPLICATION SPEC -		SIZE A2		CAGE CODE		DRAWING NO C=1840418		RESTRICTED TO -			
CUSTOMER DRAWING								SCALE 4:1		SHEET 1 OF 2		REV F	

4G46PI GIGABIT CIRCUIT 23



C2 - C5 = 0.1uF, 50V, CAPACITOR
C1 = 1000pF, 2KV, CAPACITOR
R1 - R4 = 75 ohms, RESISTOR



SUGGESTED PCB LAYOUT (TOL: ±0.05)
(COMPONENT SIDE VIEW)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN 18AUG2006	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK KEITH ZHU 18AUG2006				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TEDDY XIONG 18AUG2006	MODEL NAME		DESC IXI, MAGJACK, VERTICAL 4G46PI, GIGABIT CIRCUIT, W/O LEDS	
PRODUCT SPEC 108-2100		MAGJACK SINGLE NON-POE		SIZE A2	CAGE CODE C-1840418	RESTRICTED TO -
APPLICATION SPEC -		CUSTOMER DRAWING		SCALE 4:1	SHEET 2 OF 2	REV F