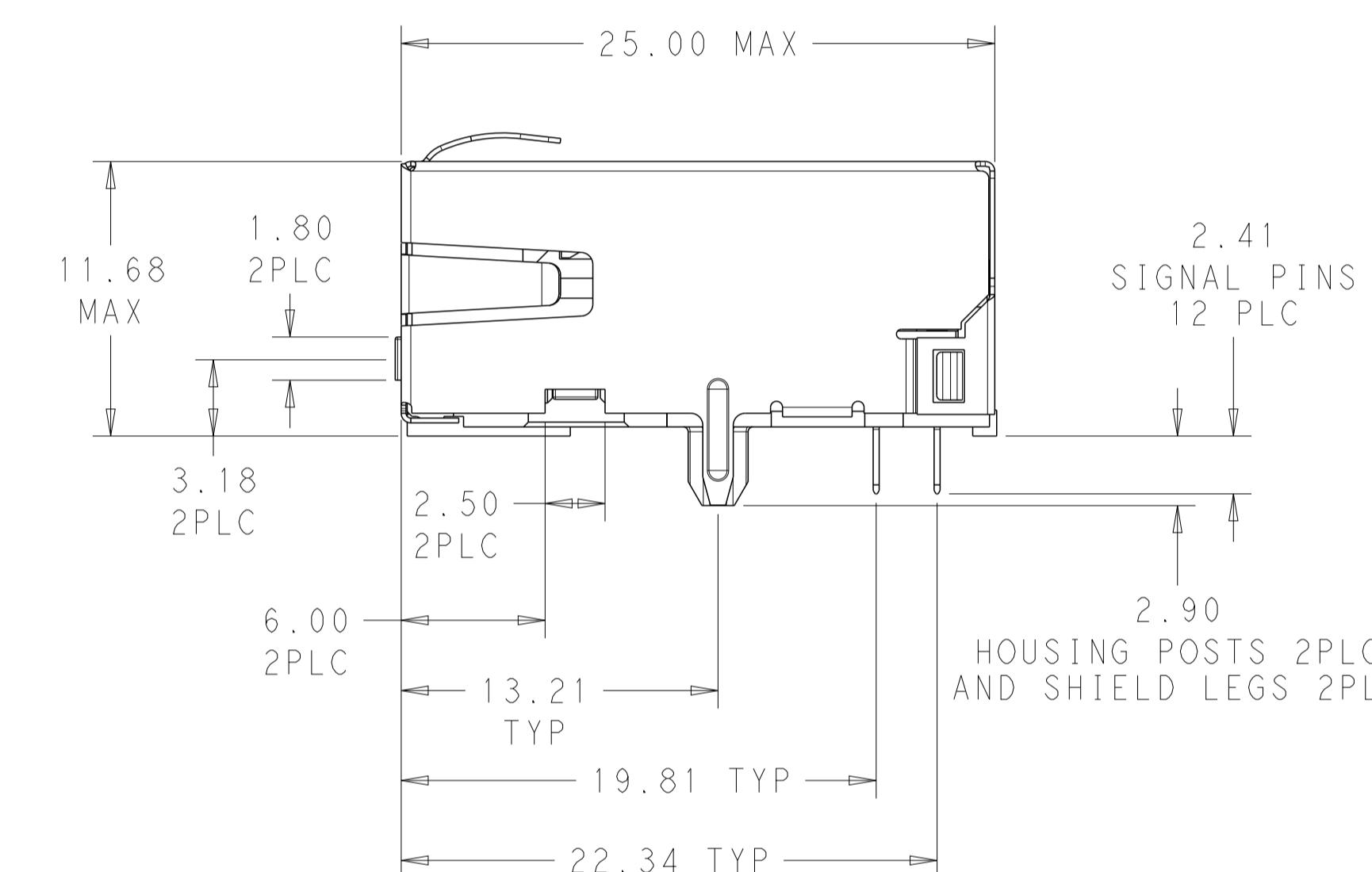
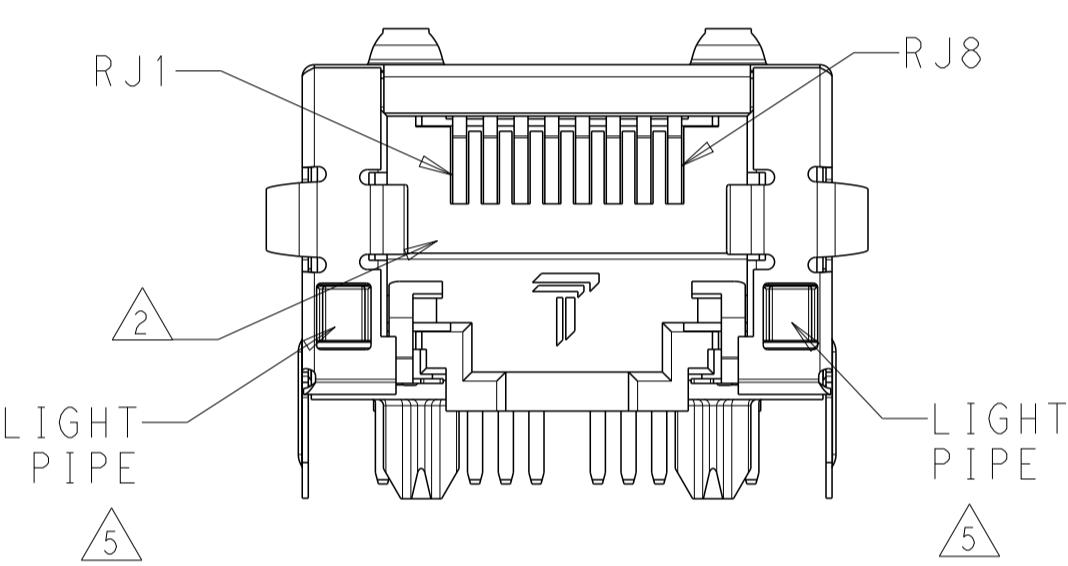
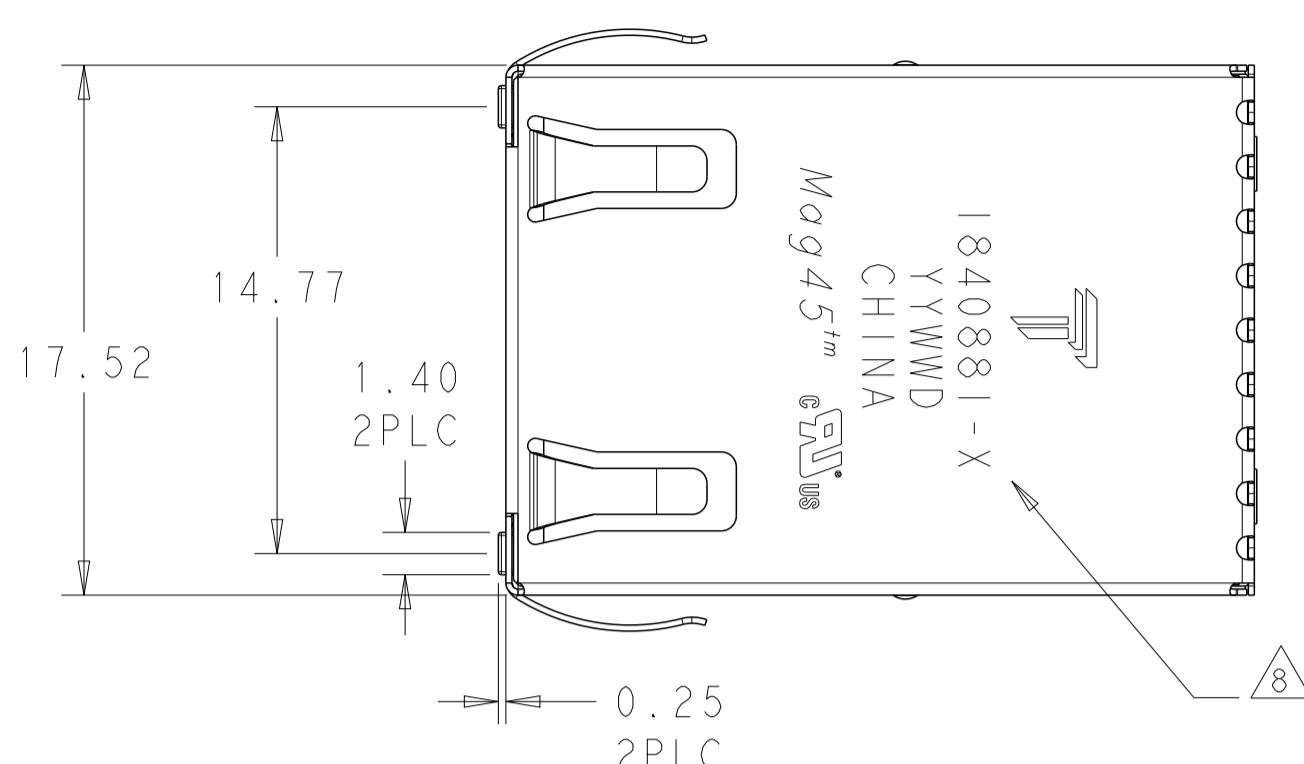
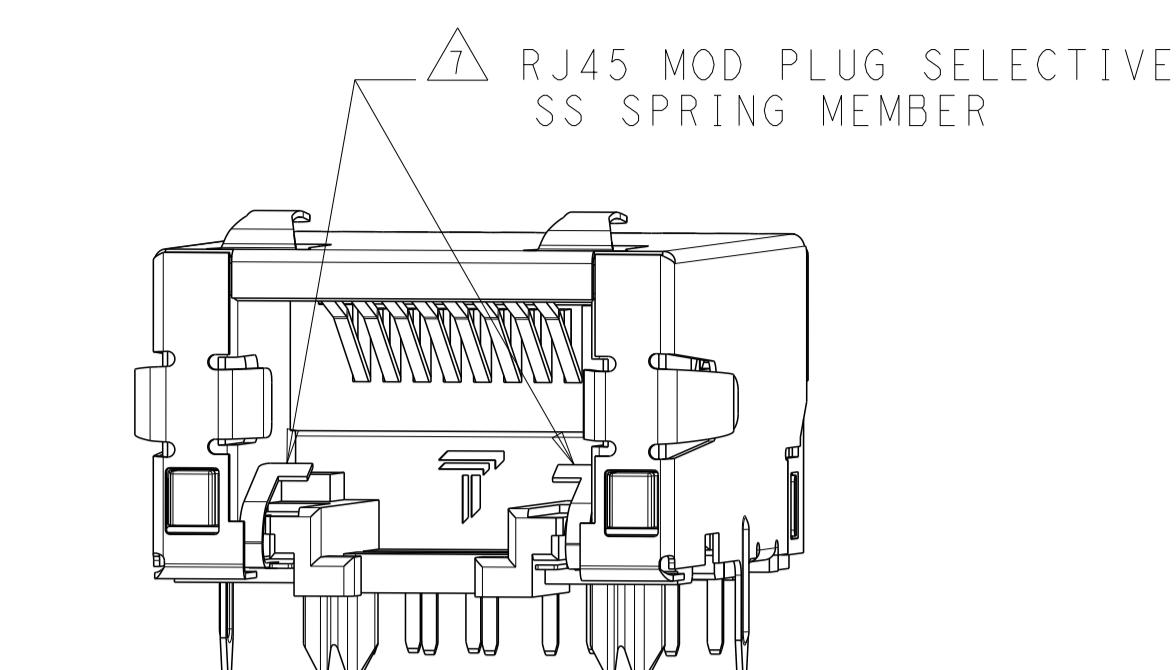
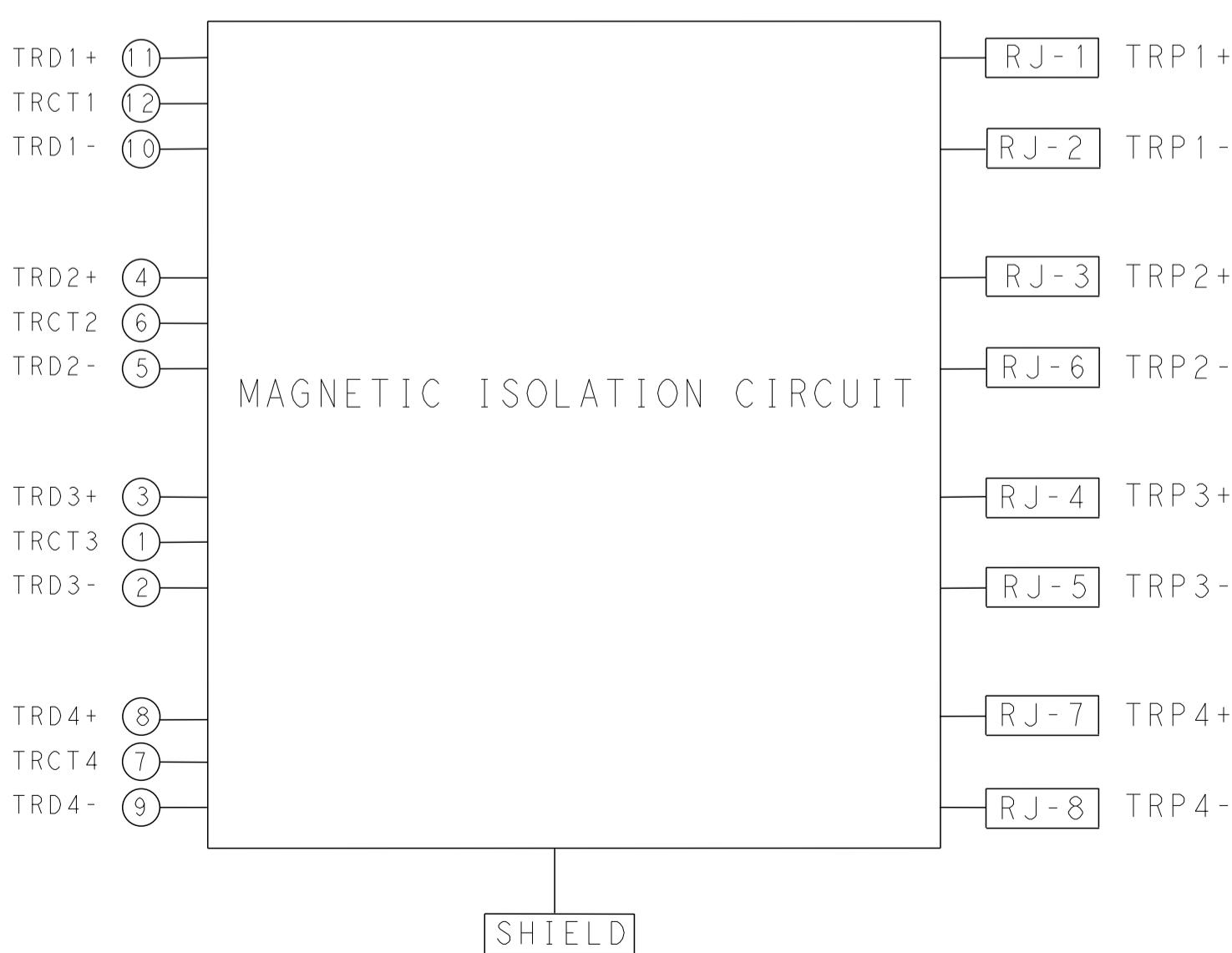


REVISIONS	
P 14	LTR LOGO CHANGE DATE 06MAY2013 DWN APVD KZ



### 8TG13 10 GIGABIT CIRCUIT



### MATERIALS:

- HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
- SHIELD: 0.20mm THICK, BRASS PREPLATED WITH 0.76  $\mu$ m MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2  $\mu$ m MIN SAC 305 ALLOY LEAD FREE SOLDER (TIN PRIMARY, 3% SILVER, 0.5% COPPER)
- CONTACT TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27  $\mu$ m MIN OVERALL NICKEL UNDERPLATE, 3  $\mu$ m MIN TIN PLATE
- MOD JACK CONTACTS: 0.3mm THICK, PHOSPHOR BRONZE, 1.27  $\mu$ m MIN OVERALL NICKEL UNDERPLATE, WITH A  $\mu$ m MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
- LIGHT PIPE: POLYETHER SULFONE

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

### MAGNETICS

- APPLICATION: 1G/10G BASE-T
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 120  $\mu$ H MIN @ 100kHz, 0.1VRMS, 8mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- PERFORMANCE @ 25°C: PLEASE REFER TO SEPARATE SHEET
- ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC,

### OPERATING TEMPERATURE: FROM 0°C TO 70°C

### LIGHT PIPES ARE USED TO TRANSMIT LIGHT OF SMD LED'S MOUNTED ON CUSTOMER BOARD.

6. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

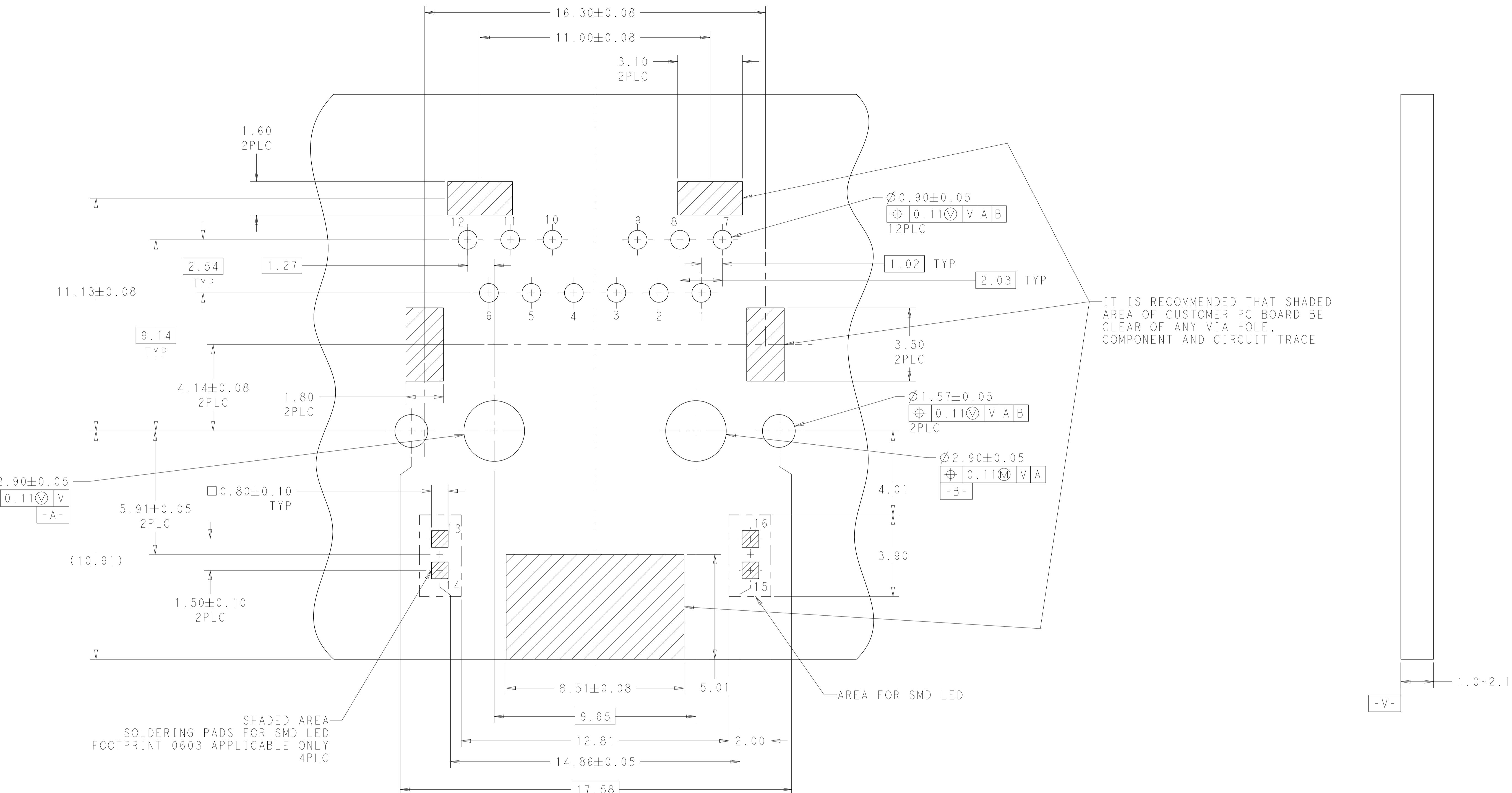
### RJ45 MOD PLUG SELECTIVE - THIS CONNECTOR UTILIZES STEEL SPRING MEMBER WHICH PREVENTS THE INSERTION OF A RJ11 (6 POSITION) PLUG INTO THE JACK PORT, WHILE ALLOWING A RJ45 (8 POSITION) PLUG TO MATE FREELY.

WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES. EXCESSIVE INSERTION FORCE MAY OVERCOME THE SELECTIVE FEATURES AND DAMAGE THE CONNECTOR.

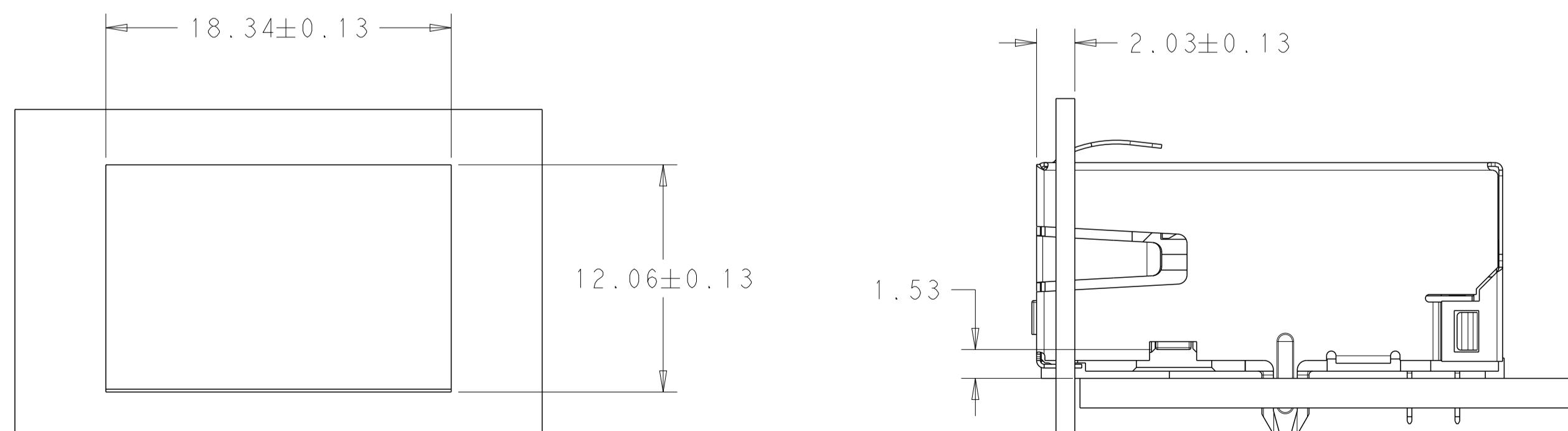
### TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN, DATE CODE: YYWW WHERE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1.

9. THIS PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

1.27	W/O	1840881-3
0.76	W/	1840881-1 (SHOWN)
<b>GOLD PLATING A</b> RJ11 PREVENTER 		
THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN DALE PAN 28OCT2010	APVD PAUL LUO 28OCT2010
DIMENSIONS: mm	0 PLC ±0.25	1 PLC ±0.25
	2 PLC ±0.25	3 PLC ±0.25
	4 PLC ±0.25	ANGLES ±1°
MATERIAL	FINISH	APPLICATION SPEC
1	1	NAME 1 MAG45(TM), JACK, 8TG13 10GIGABIT SHIELDED, LEDS, TAB DOWN
		PRODUCT SPEC
		APPLICABILITY
		SIZE CAGE CODE DRAWING NO
		WEIGHT A1 C=1840881
		RESTRICTED TO
		RESTRICTED CUSTOMER
		SCALE 4:1 SHEET 1 OF 3 REV 14



SUGGESTED PCB LAYOUT  
(COMPONENT SIDE)



SUGGESTED PANEL OPENING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DN: DALE PAN 28OCT2010	TRP connector
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	Dongguan China
0 PLC	±	0 PLC	NAME: 1x1 MAG45(TM), JACK, 8TG13 10GIGABIT
1 PLC	±0.25	1 PLC	SHIELDED, LEDS, TAB DOWN
2 PLC	±0.25	3 PLC	28OCT2010
3 PLC	±0.25	4 PLC	APV'D DENNIS CHEN
4 PLC	±0.25	ANGLES	PRODUCT SPEC
			APPLICATION SPEC
MATERIAL	FINISH	SIZE	CAGE CODE DRAWING NO
		A1	C=1840881
		WEIGHT	RESTRICTED TO
		SCALE 4:1	2 OF 3 REV 14

1840881							STOCK DISPOSITION				
							A: CONTINUE AS IS      D: USE OLD FIRST				
							B: REWORK      E: PARTS TO CONFORM				
							C: SCRAP      F: OTHER				
REVISION HISTORY											
DATE	REV	CHANGES			REASON		APPROVAL	INVENTORY (A,B,C,D,E,F)	WORK IN PROCESS (A,B,C,F)	SUPPLIER ORDERS (A,E,F)	OPEN CUST ORDERS (A,E,F)
28OCT2010	1	INITIAL RELEASE			-		DC	-	-	-	-
22NOV2010	2	SHEET 1, C5: INCREASED OVERALL LENGTH FROM 24.13 TO 27.58 SHEET 1, B3: REVISED THE LOWEST OPERATING TEMPERATURE FROM -40°C TO 0°C SHEET 1, A1: REVISED PINS LENGTH. SHEET 1, B7: REMOVED SOME REDUNDANT DIMENSIONS. SHEET 2, D5: UPDATED KEEP-OUT AREA.			OPTIMIZE DESIGN		DC	-	-	-	-
23NOV2010	3	SHEET 1, D3: ADDED OCL SPEC IN MAGNETICS PERFORMANCE.			DRAFT ERROR		DC	-	-	-	-
25NOV2010	4	SHEET 1, C5, UPDATED SIGNAL PINS AND SHIELD LEGS LENGTH. SHEET 1, A1, REMOVED SOME REDUNDANT DASH NUMBERS.			OPTIMIZE DESIGN		DC	-	-	-	-
22DEC2010	5	SHEET 1, C5, UPDATED PROFILE TOTAL LENGTH FROM 27.58 MAX TO 25.00 MAX SHEET 1, B4, UPDATED PINOUTS LENGTH SHEET 2, B5~D5, UPDATED KEEPOUT AREA			CUSTOMER REQUIREMENT		DC	-	-	-	-
18MAR2011	6	SHEET 1, D3, MOVE THE DETAIL MAGNETICS PERFORMANCE TO A SEPARATE SHEET.			MARKET REQUIREMENT		DC	-	-	-	-
09MAR2011	7	SHEET 1, C7, INCREASED ONE ADDITION EMI FINGER AT TOP, LEFT, AND RIGHT SIDES. SHEET 1, D3, CHANGED CONTACT LEADFRAME THICK FROM 0.25mm TO 0.3mm.			OPTIMIZE DESIGN		DC	-	-	-	-
19MAR2011	8	SHEET 1, C7, CHANGED BACK EMI FINGER QUANTITY SHEET 1,2,3, A1, UPDATED LOGO			CUSTOMER REQUIREMENT TE CONNECTIVITY REQUIREMENT		KZ	-	-	-	-
18JUL2011	9	DRAWING IS RESTRICTED TO TE CONNECTIVITY SHEET 1, D5, CHANGED THE LOGO MARKING SHEET 2, C7, Ø3.375±0.025 WAS CHANGED TO Ø2.9±0.05			OPTIMIZE DESIGN		KZ	-	-	-	-
14DEC2011	10	SHEET 1, D4, REMOVED OCL REQUIREMENT TO SEPARATE SHEET SHEET 2, B8, ADDED THE REFERENCE DIMENSION 10.91			OPTIMIZE DESIGN		KZ	-	-	-	-
24FEB2012	11	SHEET 1, A1, ADDED THE OPTION 1840881-3			CUSTOMER REQUIREMENT		KZ	-	-	-	-
14MAR2012	12	SHEET 1, A2, CHANGE THE PLATING OF 1840881-3			CUSTOMER REQUIREMENT		KZ	-	-	-	-
16AUG2012	13	SHEET 1, D4, ADDED OCL REQUIREMENT			CUSTOMER REQUIREMENT		TY	-	-	-	-
06MAY2013	14	LOGO CHANGE			MARKET REQUEST		KZ	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRAWN 28OCT2010	TRP connector
DIMENSIONS: mm		CHIEF DRAWER 28OCT2010	Dongguan China
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPROVED 28OCT2010	
0 PLC ±0.25		PAUL LUO 28OCT2010	
1 PLC ±0.25		DENNIS CHEN	
2 PLC ±0.25		PRODUCT SPEC	NAME: X1 MAG45(TM), JACK, 8TG13 10GIGABIT
3 PLC ±0.25		APPLICATION SPEC	SHIELDED, LEDS, TAB DOWN
4 PLC ±0.25		APPLIED BY	
ANGLES ±1°		MADE BY	
MATERIAL:		FINISH	SIZE: CAGE CODE: DRAWING NO: RESTRICTED TO
			A1 C=1840881
WEIGHT:			RESTRICTED CUSTOMER
			SCALE: 4:1 SHEET 3 OF 3 REV 14