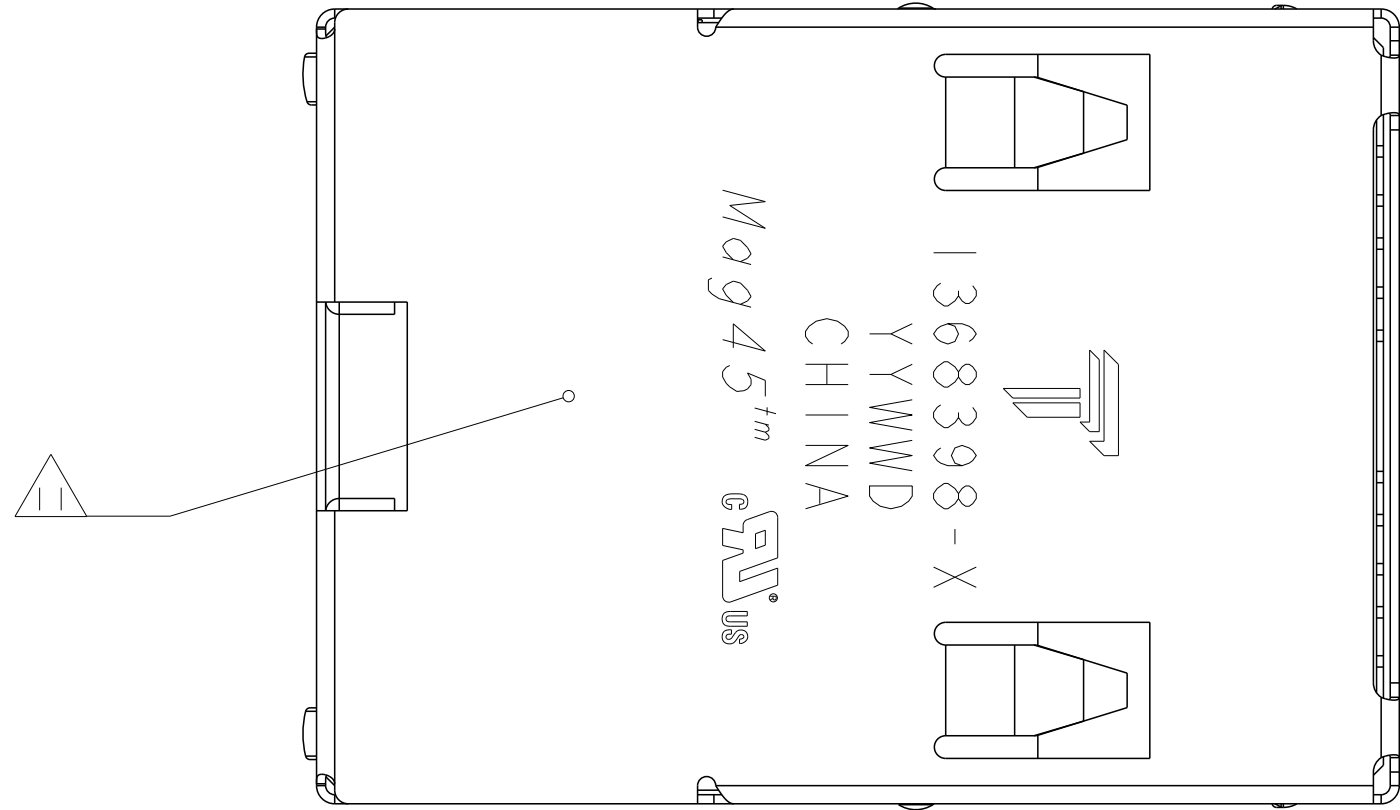
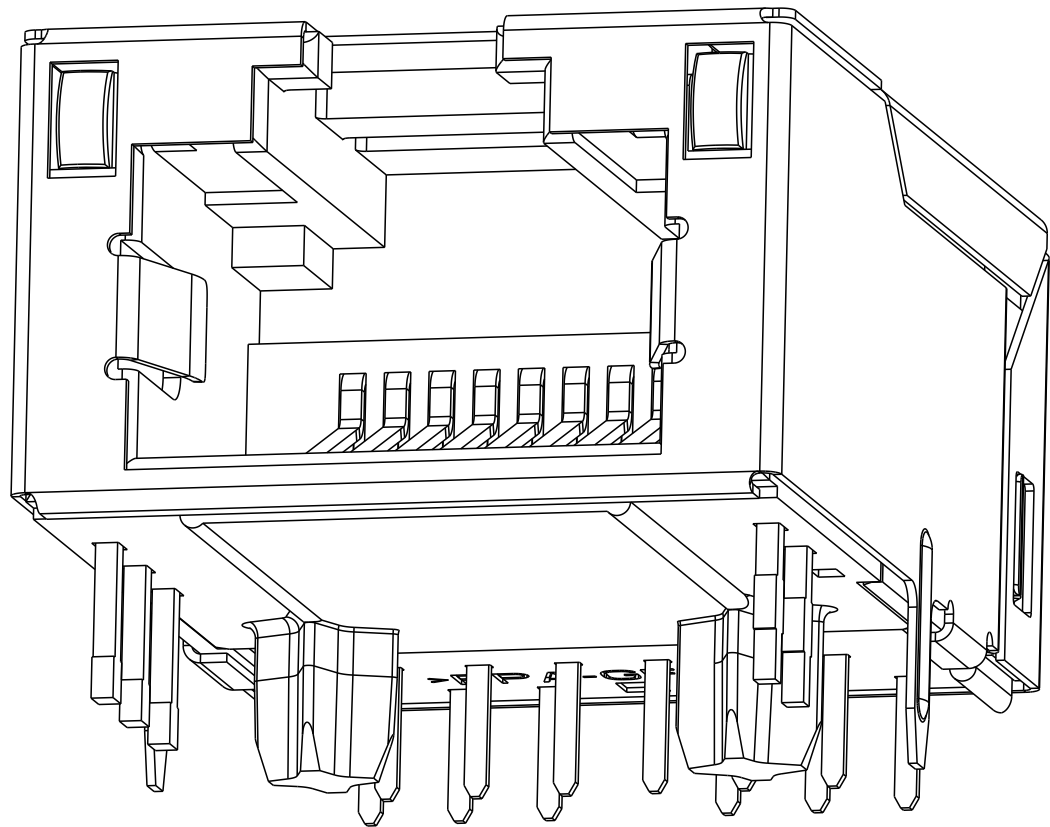


REVISIONS				
P	LTR	DESCRIPTION	DATE	DWN APVD
R		EC-1306021	24JUN2013	TY KZ



- 1 MATERIALS:
- HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
 - SHIELD: 0.20mm THICK, BRASS PREPLATED WITH 1.27μm MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2μm MIN SAC 305 ALLOY LEAD FREE SOLDER (TIN PRIMARY, 3% SILVER, 0.5% COPPER)
 - CONTACT TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 μm MIN OVERALL NICKEL UNDERPLATE, 3μm MIN TIN PLATE
 - MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 μm MIN OVERALL NICKEL UNDERPLATE, WITH 0.76μm OR 1.27μm MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
 - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03μm MIN. SILVER PLATE OVER 1.02μm MIN. NICKEL OVER 1.02μm MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05μm MIN. MATTE TIN.
 - LIGHT PIPE: POLYCARBONATE

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

- 3 MAGNETICS:
- IMPEDANCE: 100 OHMS
 - TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL): 350μH (MIN) @100KHz, 0.1 VRMS WITH 8 mA DC BIAS.
 - TURNS RATIO (CHIP:CABLE): TX 1:1, RX: 1:1
- PERFORMANCE:
- TRANSMIT BIDIRECTIONAL ALL 4 PAIRS
 - RECEIVE BIDIRECTIONAL ALL 4 PAIRS

FREQUENCY	INSERTION LOSS (dB MAX)	RETURN LOSS (dB MIN) CIRCUIT IMPEDANCE = 100 OHMS ±15%	COMMON MODE REJECTION RATIO (dB MIN)	CROSSTALK ATTENUATION (dB MIN)
0.5 MHz-40.0 MHz	1.2	18.0	30	35
40.0 MHz-100.0 MHz		12-20 log(f/80) f IS FREQUENCY IN MHZ		33-20 log(f/50) f IS FREQUENCY IN MHZ
ALL MAGNETIC ELECTRICAL CHARACTERISTICS RATED @ 25°C				

- DIELECTRIC (ISOLATION VOLTAGE):
- 2250 VDC (1 mA CUTOFF CURRENT) FOR 60 SECONDS DURATION BETWEEN CABLE CONTACTS AND PCB CONTACTS (INCLUDING SHIELD).
 - 1500 VRMS (10 mA CUTOFF CURRENT) FOR 60 SECONDS DURATION BETWEEN CABLE CONTACTS AND PCB CONTACTS (INCLUDING SHIELD).
 - ALL BRIDGED ON EITHER SIDE OF MAGNETICS PACKAGE FOR RJ-45 CONTACTS.
- OPERATING TEMPERATURE: FROM 0°C TO +70°C.

- 4 LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20mA.
- 5 LED PEAK WAVELENGTH: GREEN = 565±5nm
YELLOW = 591±5nm
ORANGE = 607±5nm

- 6 LED 2 WILL EMULATE "YELLOW" LIGHT WHEN BOTH GREEN AND ORANGE DIODES ARE DRIVEN AT CONSTANT CURRENT (20 mA RECOMMENDED) TO INDICATE THE THIRD COLOR STATES.

- 7 ALL DIMENSIONS NOMINAL UNLESS OTHERWISE NOTED.

8. 1368398-1 SHOWN UNLESS OTHERWISE NOTED.

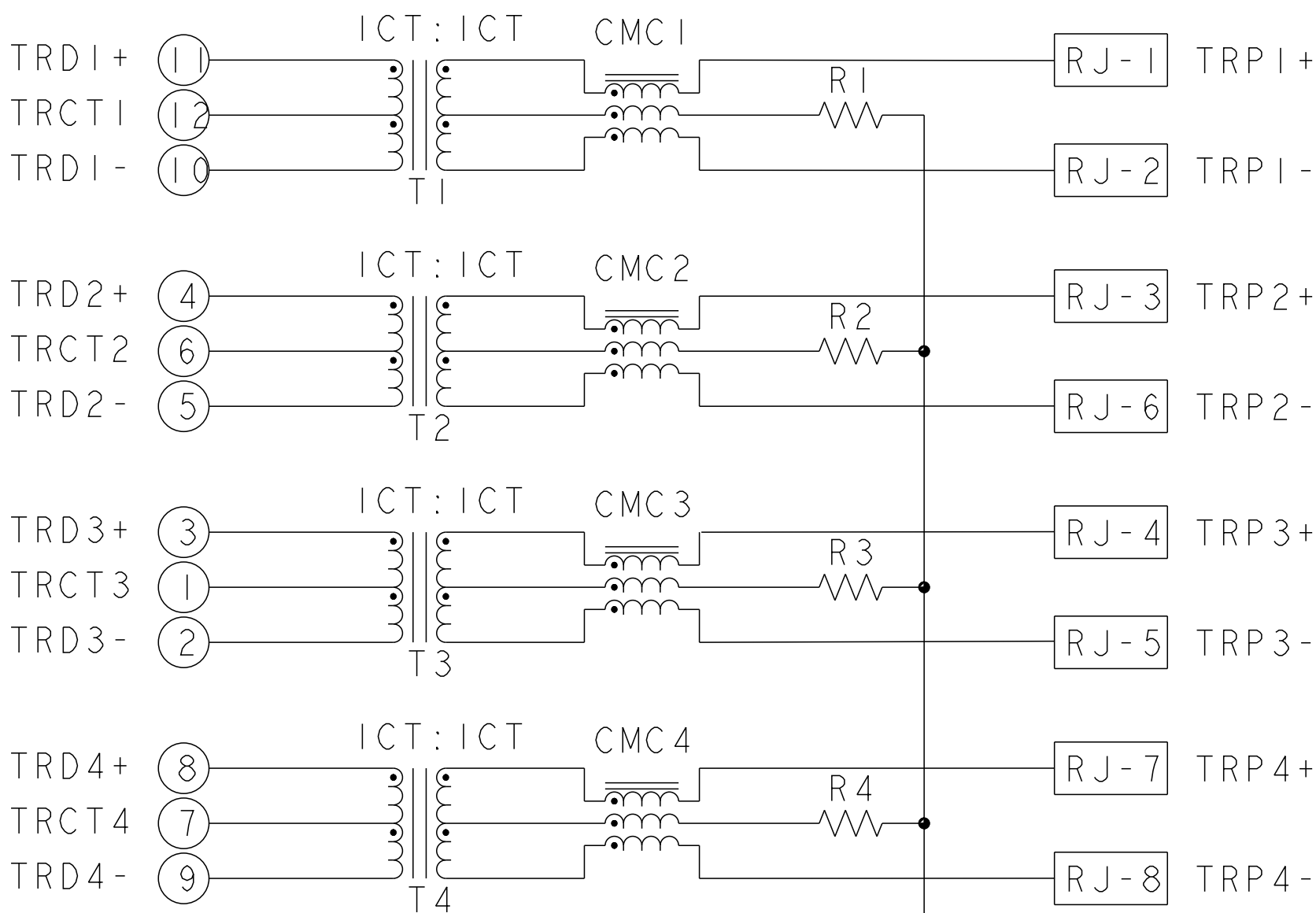
- 9 RJ45 MOD PLUG SELECTIVE - THIS CONNECTOR UTILIZES STAINLESS STEEL SPRING MEMBER WHICH PREVENTS THE INSERTION OF A RJ11 (6 POSITION) PLUG INTO THE JACK PORT, WHILE ALLOWING A RJ45 (8 POSITION) PLUG TO MATE FREELY.
- WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES. EXCESSIVE INSERTION FORCE MAY OVERCOME THE SELECTIVE FEATURES AND DAMAGE THE CONNECTOR.

- 10 APPLIES ONLY TO 1368398-3, 1368398-4, 1369398-7 AND 1-1368398-3.

- 11 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, PLACE OF ORIGIN TO BE MARKED IN APPROXIMATE LOCATION AS SHOWN. DATE CODE: "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1

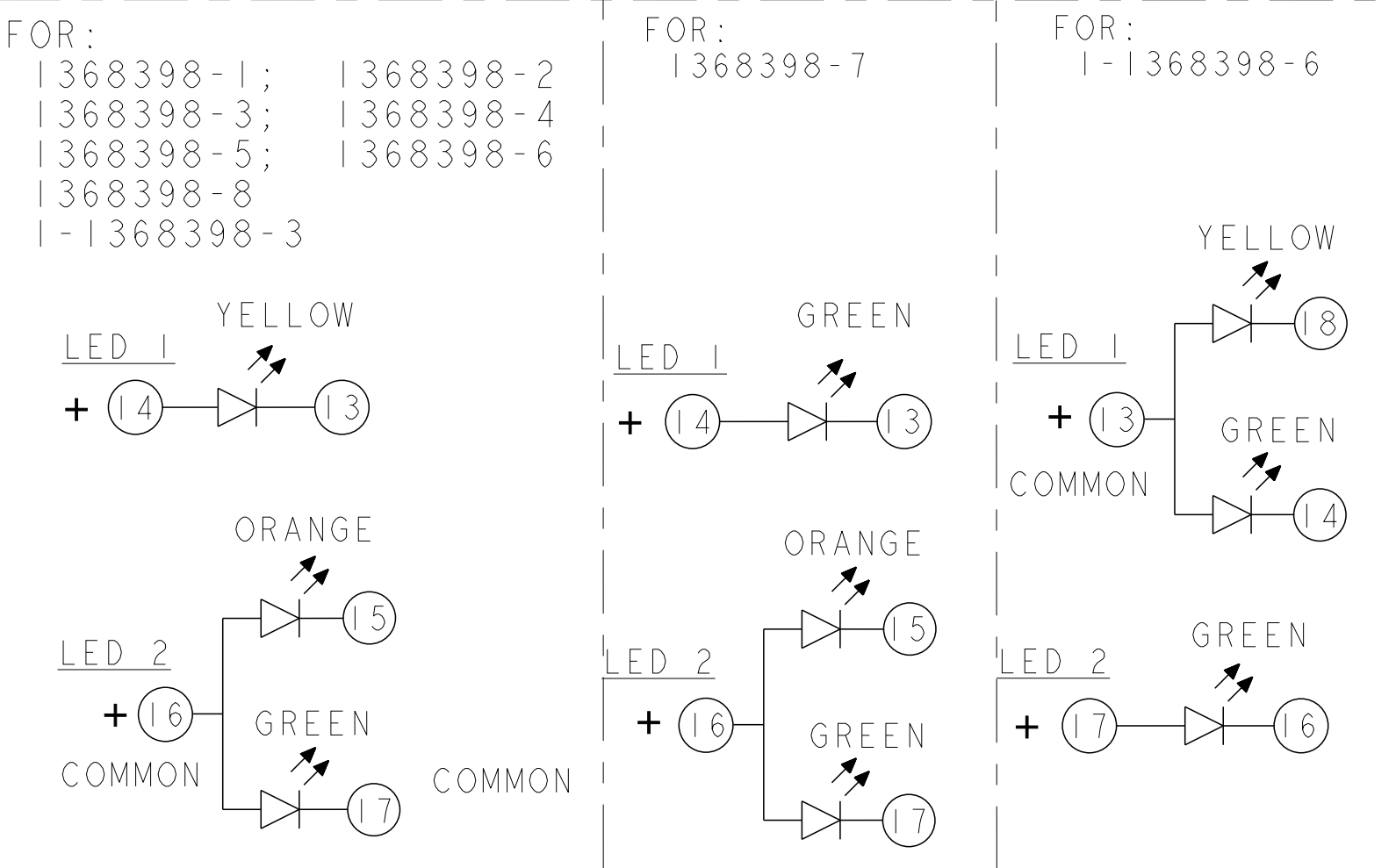
12. THESE PARTS ARE COMPLIANT TO BOTH WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 150°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 265°C MAX, 10 SECONDS MAX; AND IR REFLOW SOLDERING PROCESS, PEAK SOLDERING TEMPERATURE 260°C MAX DURATION TIME 10 SECONDS MAX, OVER 230°C WITHIN 40-60 SECONDS.

IG18 GIGABIT CIRCUIT 3



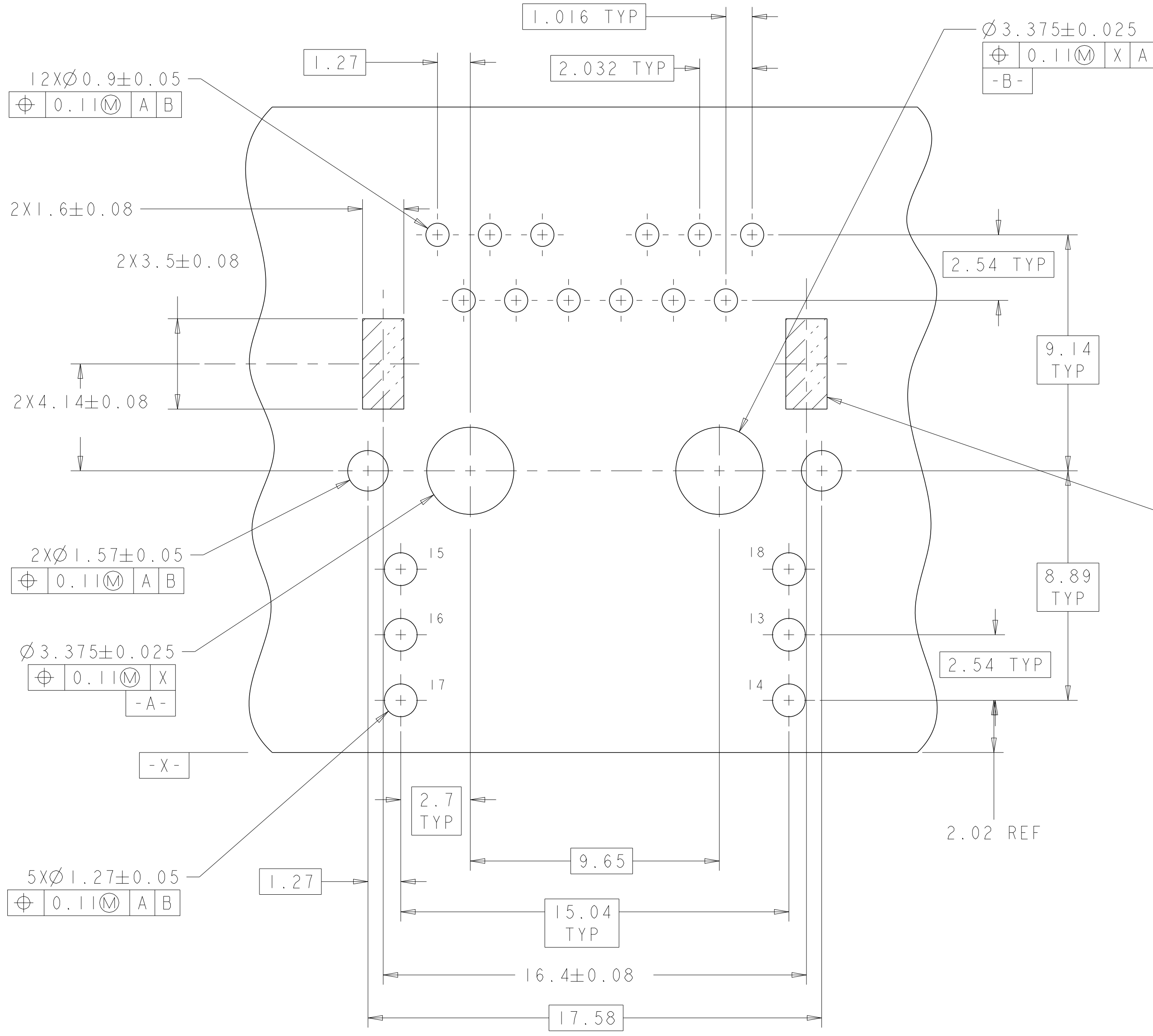
CI : 1000pF, 3kV DECOUPLING CAPACITOR.

R1-R4: 75 Ohms, 1/16 W, 5% RESISTORS.

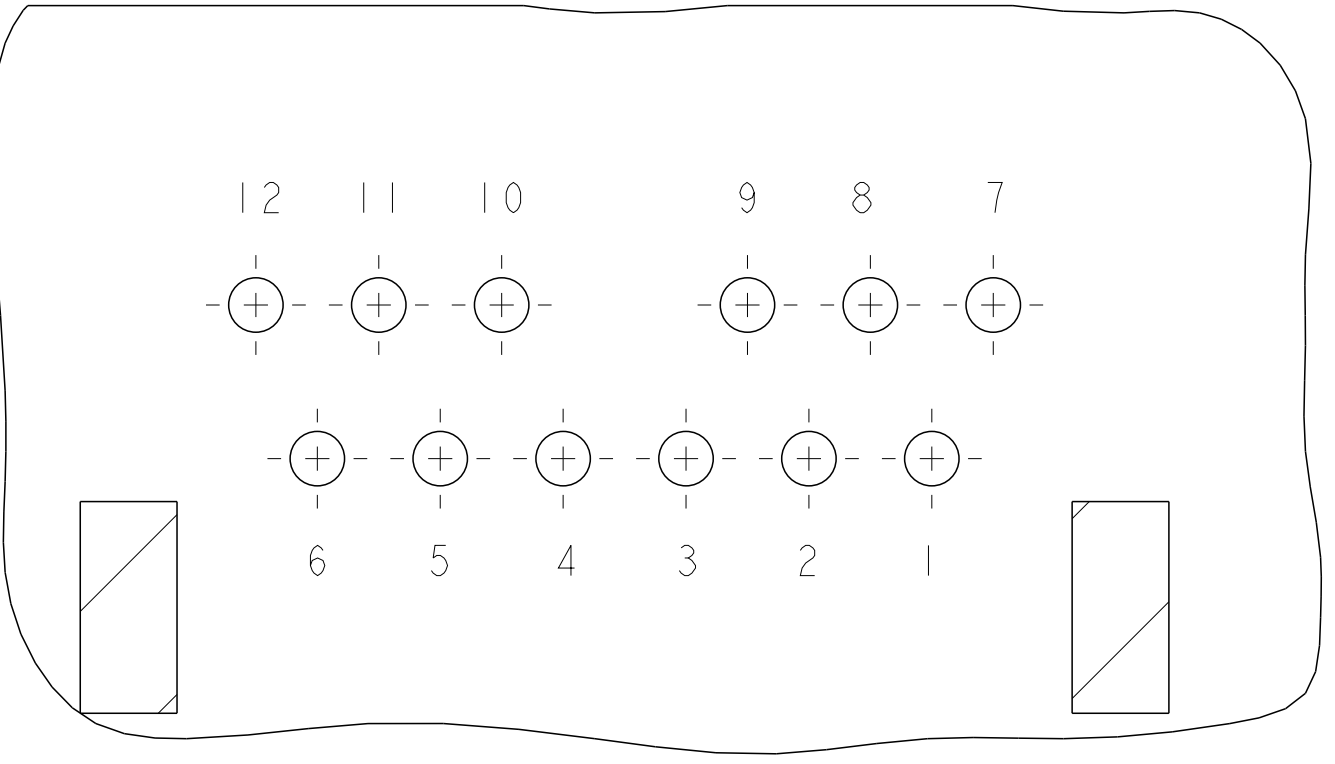
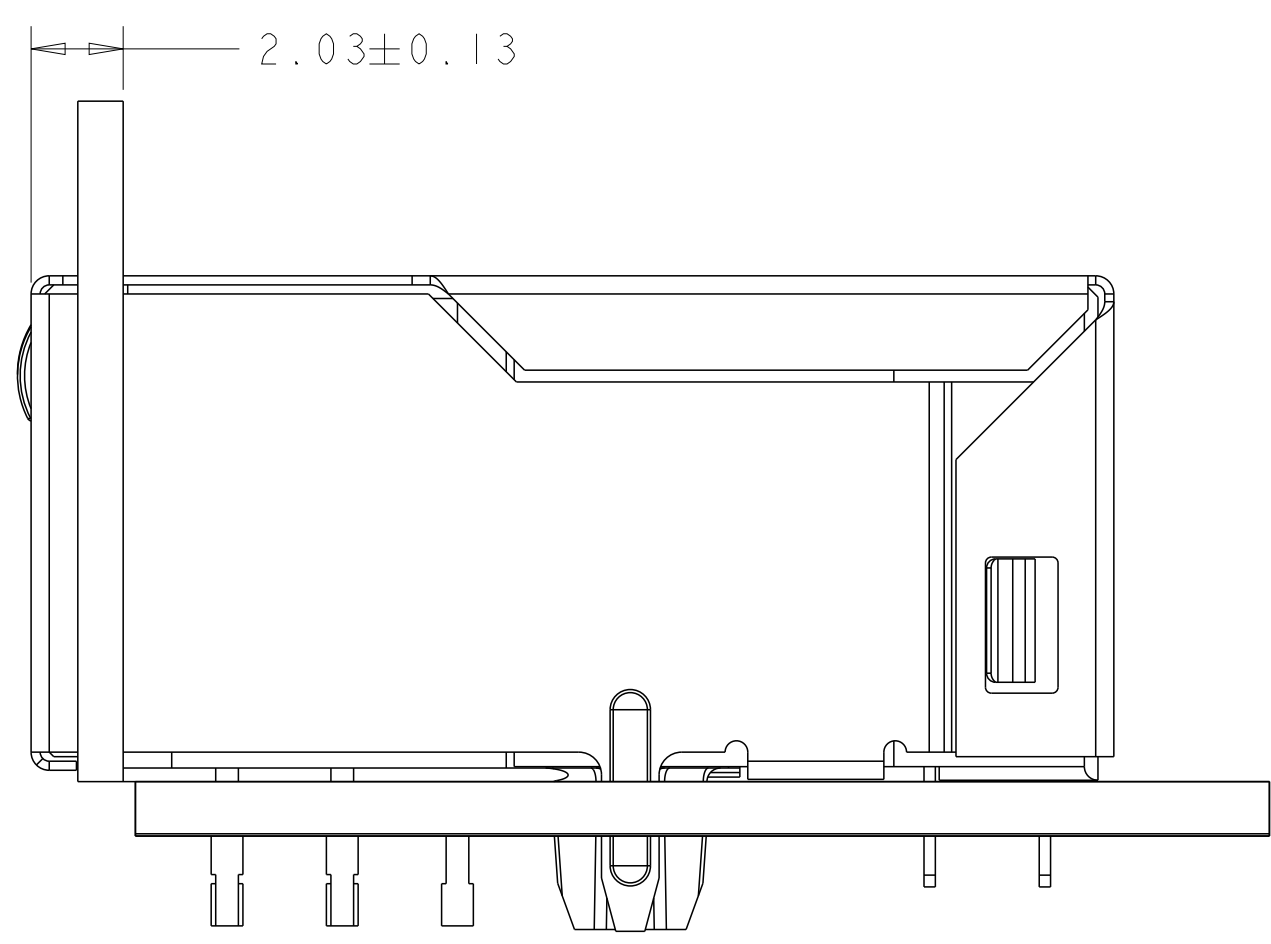
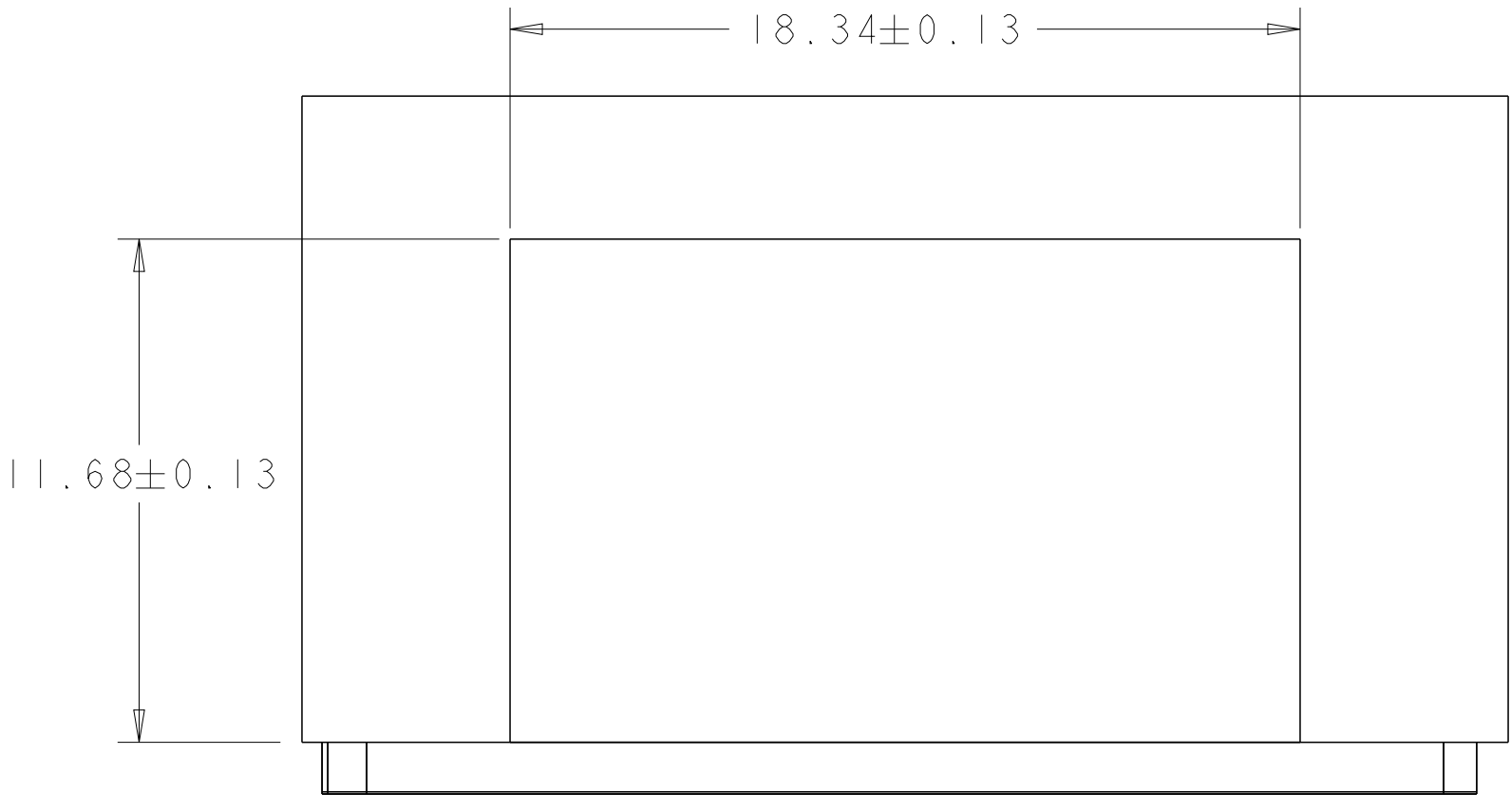


TRAY	0.76um	GREEN/YELLOW	GREEN	YES	NO	3.3	3.18	1-1368398-6
TRAY	0.76um	YELLOW	GREEN/ORANGE	YES	TOP AND SIDES	1.8	1.8	1-1368398-3
TRAY	1.27um	YELLOW	GREEN/ORANGE	NO	TOP AND SIDES	3.3	3.18	1368398-8
TRAY	0.76um	GREEN	GREEN/ORANGE	YES	TOP AND SIDES	3.3	3.18	1368398-7
TRAY	0.76um	YELLOW	GREEN/ORANGE	NO	TOP ONLY	3.3	3.18	1368398-6
REEL	0.76um	YELLOW	GREEN/ORANGE	YES	NO	1.8	1.8	1368398-5
TRAY	0.76um	YELLOW	GREEN/ORANGE	YES	TOP AND SIDES	3.3	3.18	1368398-4
REEL	0.76um	YELLOW	GREEN/ORANGE	YES	TOP AND SIDES	1.8	1.8	1368398-3
REEL	0.76um	YELLOW	GREEN/ORANGE	YES	TOP ONLY	1.8	1.8	1368398-2
TRAY	0.76um	YELLOW	GREEN/ORANGE	NO	NO	3.3	3.18	1368398-1
PACKAGE STYLE	GOLD PLATING THICKNESS	LED 1	LED 2	RJ11 SELECTIVE CAPABILITY	GROUND TABS	DIM B	DIM A	PART NO.

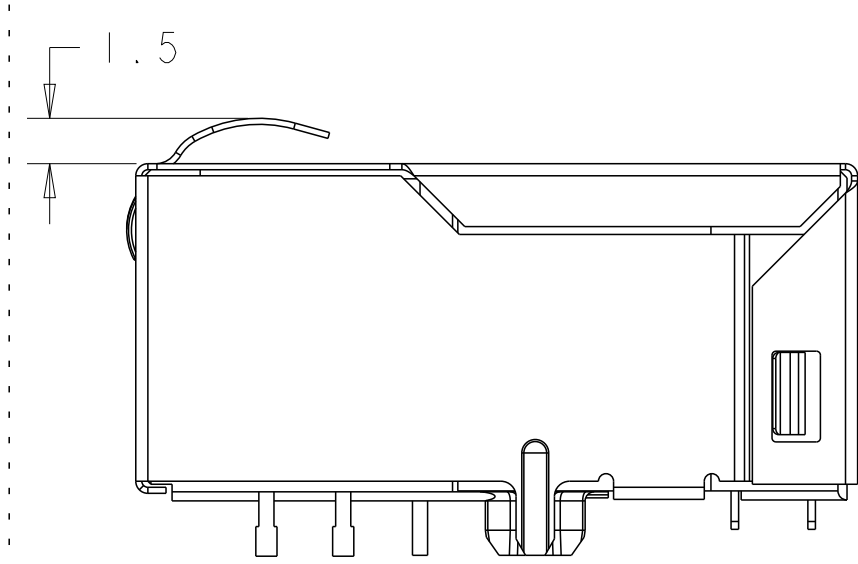
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: ERIC BRIANT 15MAY2003		 TRP connector Dongguan China
DIMENSIONS: mm		CHK: N. REESER 9FEB2004		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: N. REESER 9FEB2004		
0 PLC ±.25 1 PLC ±.25 2 PLC ±.25 3 PLC ±.25 4 PLC ±.25 ANGLES FINISH		PRODUCT SPEC 108-2207 APPLICATION SPEC 114- WEIGHT -		
MATERIAL: 1		NAME: XI MAG45(TM) JACK, IG18 GIGABIT SHIELDED, LEDS, SELECTIVE CAPABILITY		RESTRICTED TO: -
CUSTOMER DRAWING		SIZE: A1 C=1368398		SCALE: NTS SHEET: 1 OF 2 REV: R



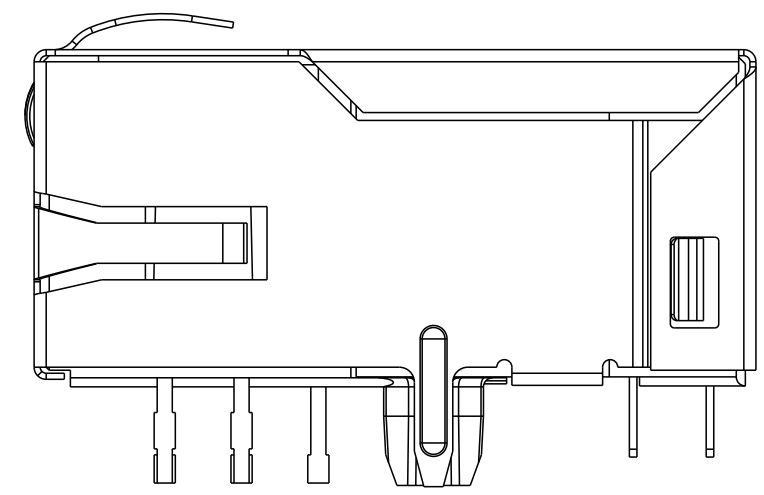
SUGGESTED PCB LAYOUT
(COMPONENT SIDE)



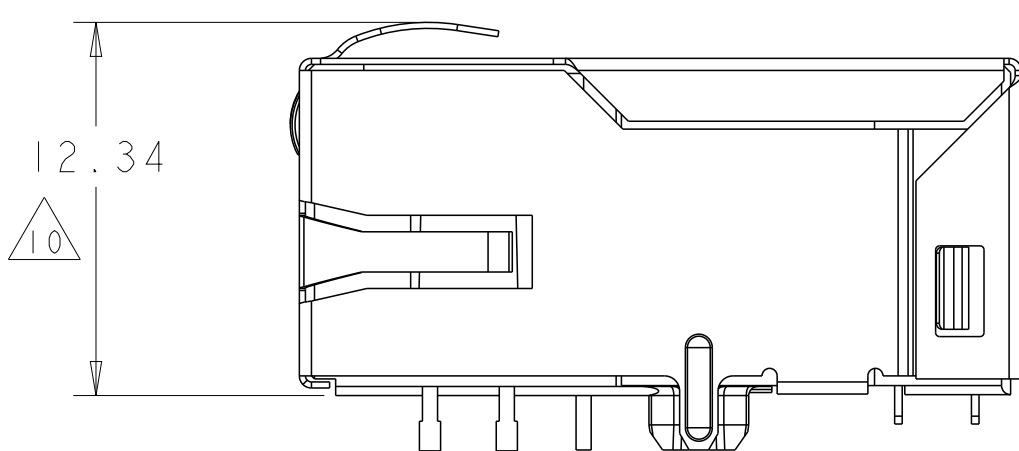
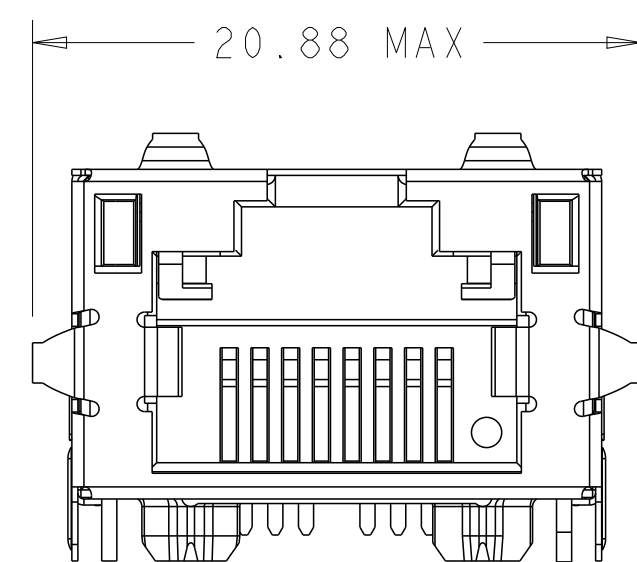
IT IS RECOMMENDED THAT SHADED
AREA OF CUSTOMER PC BOARD BE
CLEAR OF ANY VIA HOLE,
COMPONENT AND CIRCUIT TRACE



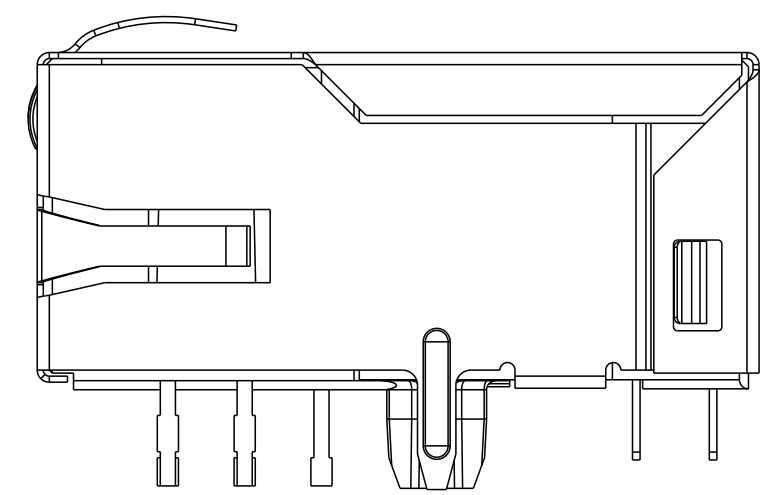
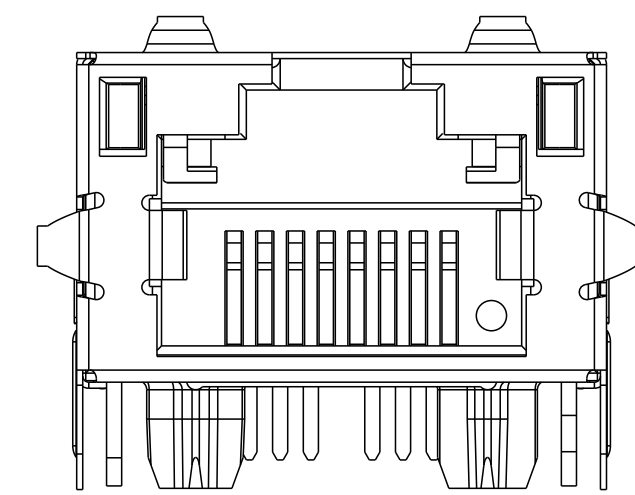
1368398-2



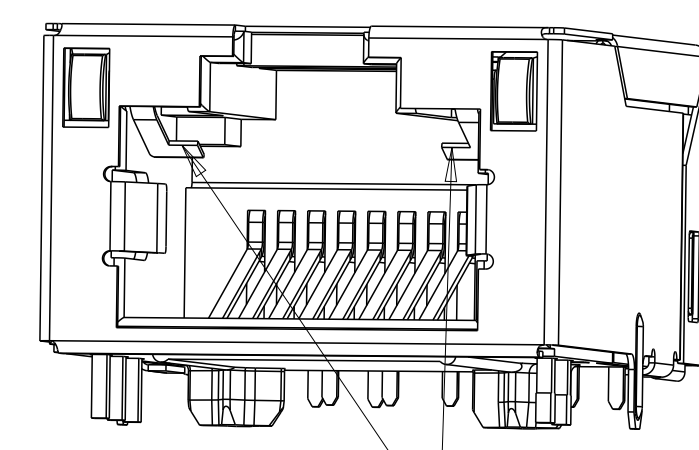
1368398-7



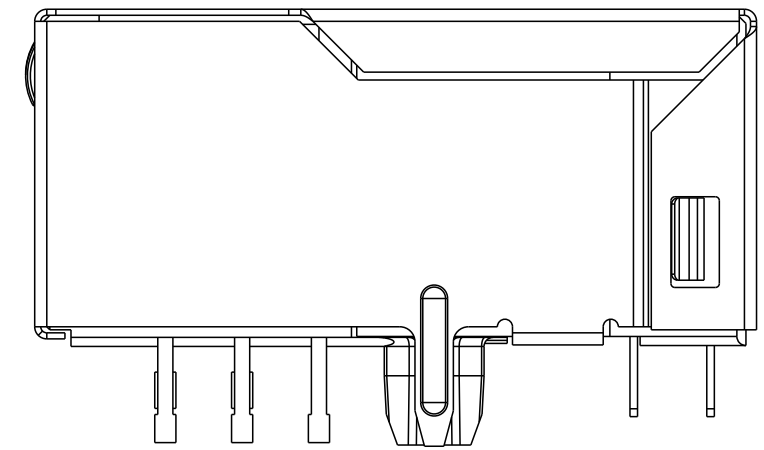
1368398-3, 1-1368398-3



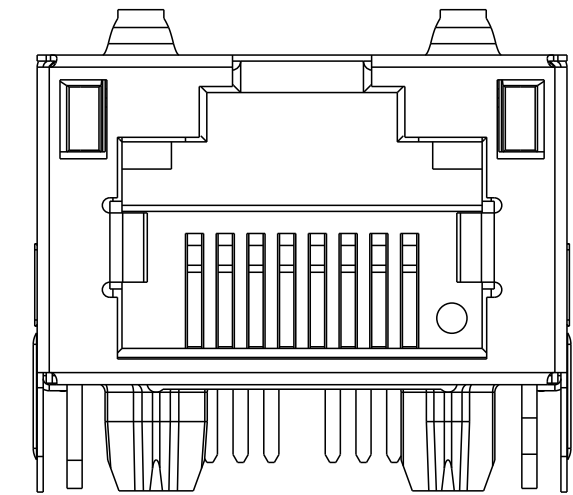
1368398-4



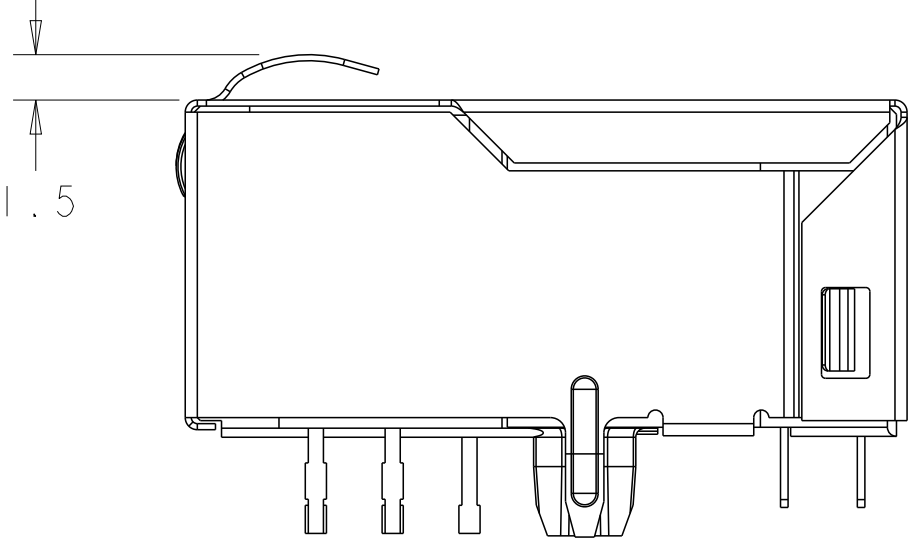
1368398-5
RJ45 MOD PLUG
SELECTIVE SS
SPRING MEMBER

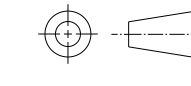


1-1368398-5



1368398-6



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ERIC BRIANT 15MAY2003				TRP connector Dongguan China			
DIMENSIONS:		CHK N. REESER 9FEB2004							
mm		APVD N. REESER 9FEB2004							
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME XI MAG45(TM) JACK, IGI8 GIGABIT SHIELDED, LEDS, SELECTIVE CAPABILITY					
		0 PLC ±		SIZE 114-					
		1 PLC ±0.25		CAGE CODE C=1368398					
		2 PLC ±0.25		DRAWING NO 114-					
MATERIAL		FINISH		RESTRICTED TO				CUSTOMER DRAWING	
-		-		-				SCALE NTS	
								SHEET 2 OF 2	
								REV R	