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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
1		INITIAL RELEASE	25SEP2017	JY

1. MATERIALS:

- HOUSING: THERMOPLASTIC FLAMMABILITY, RATING, UL 94V-0
- SHIELD: STAINLESS STEEL 0.15mm THICK, PREPLATED WITH 0.76 um MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST PREPLATED WITH 3um TIN.
- MOD JACK CONTACTS: 0.3mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, WITH 1.27um 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 2.03um MIN. SILVER PLATE OVER 1.02um MIN. NICKEL OVER 1.02um 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:

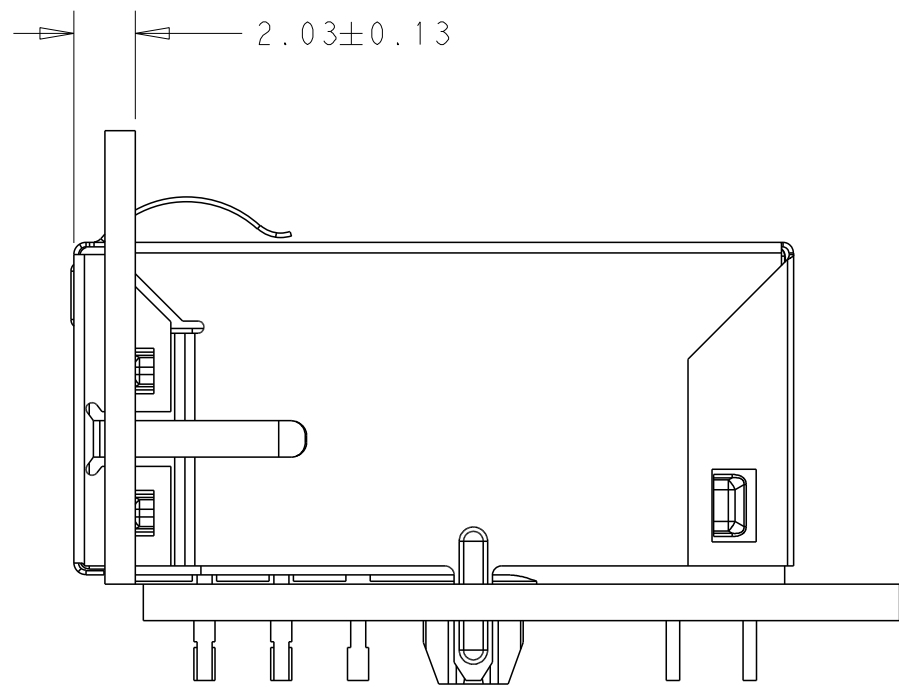
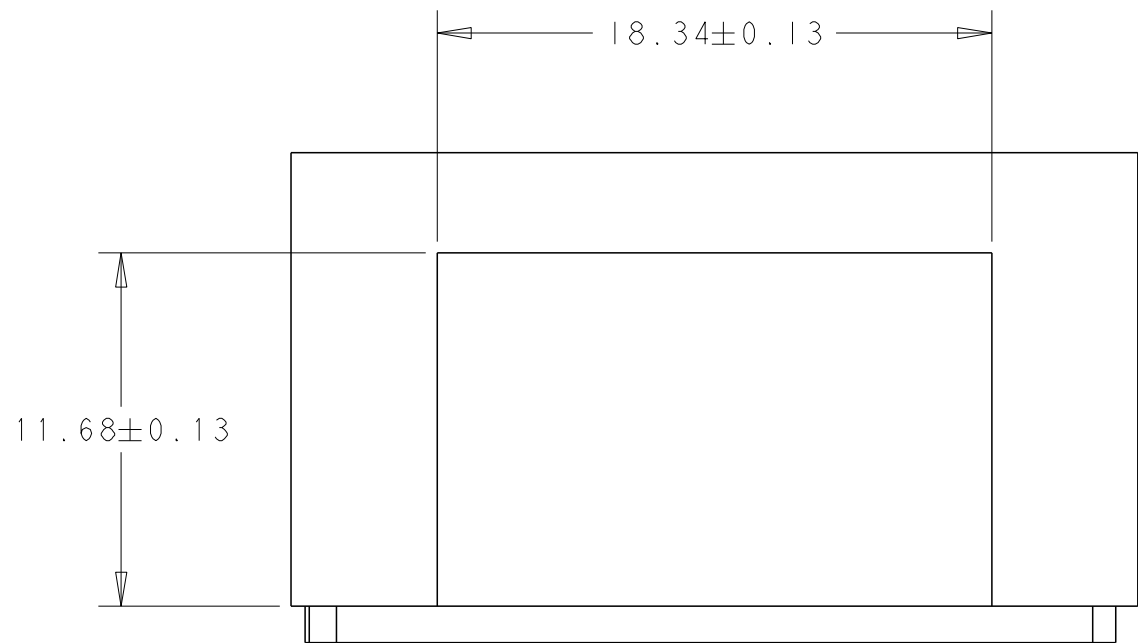
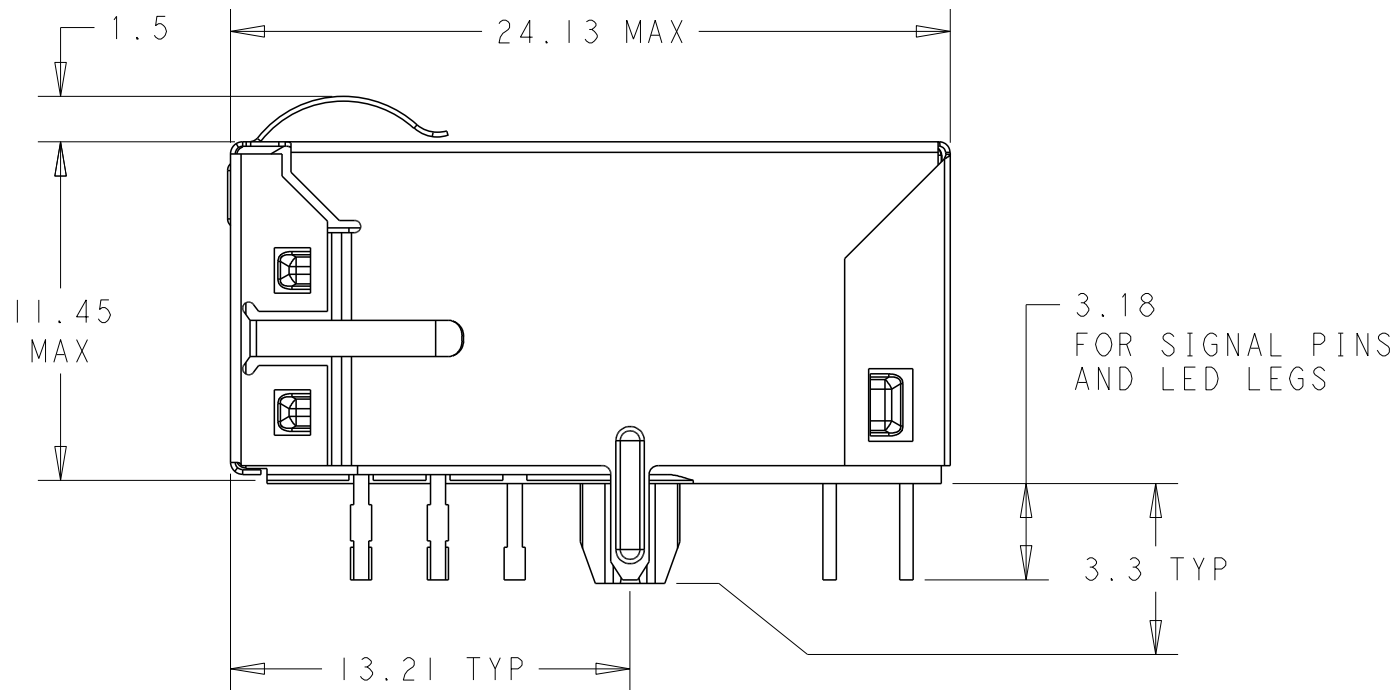
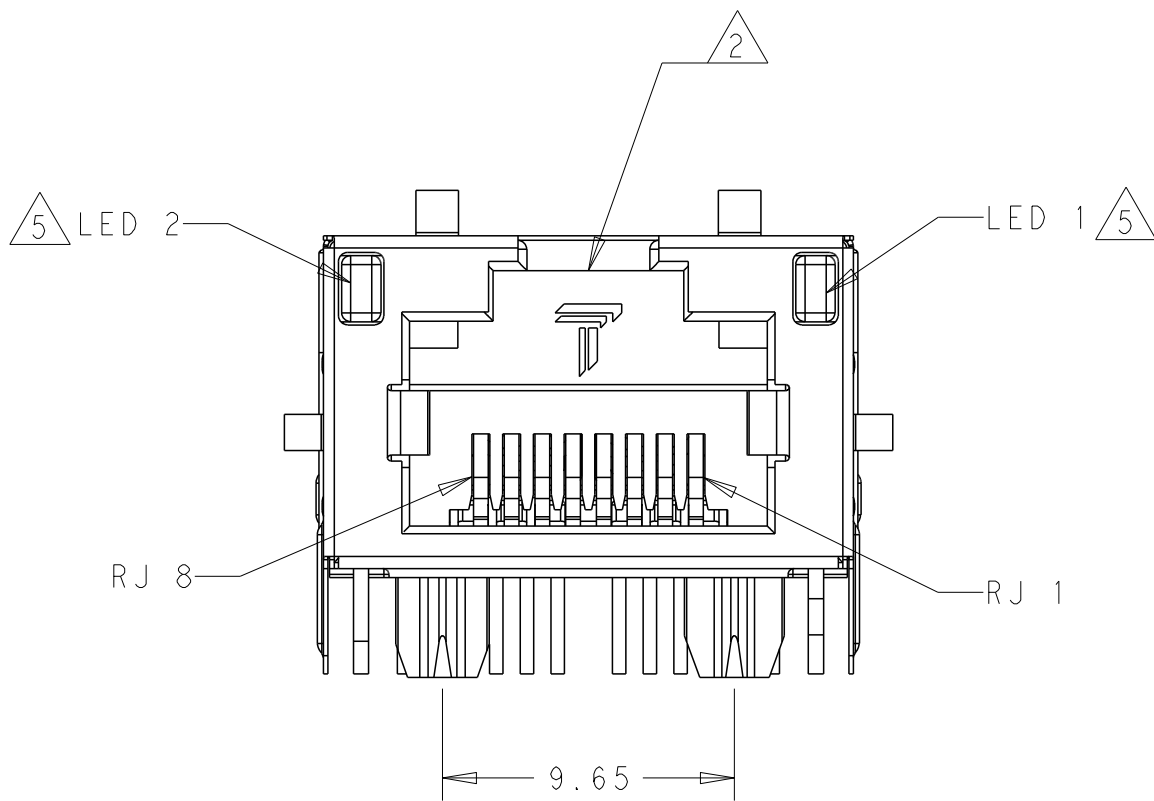
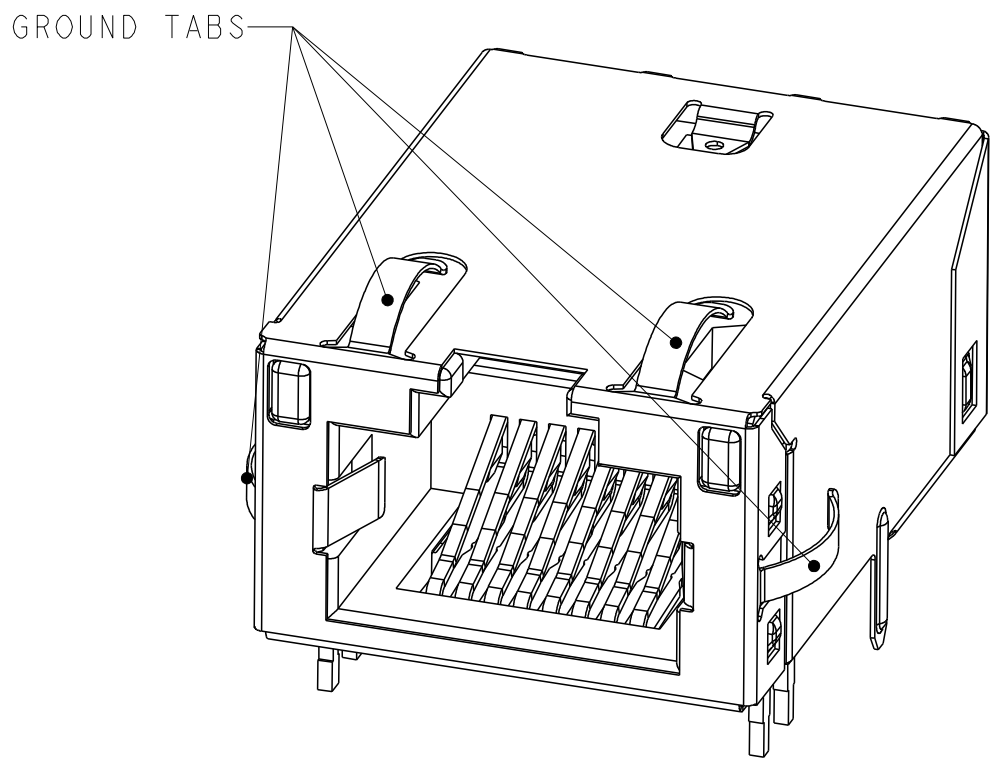
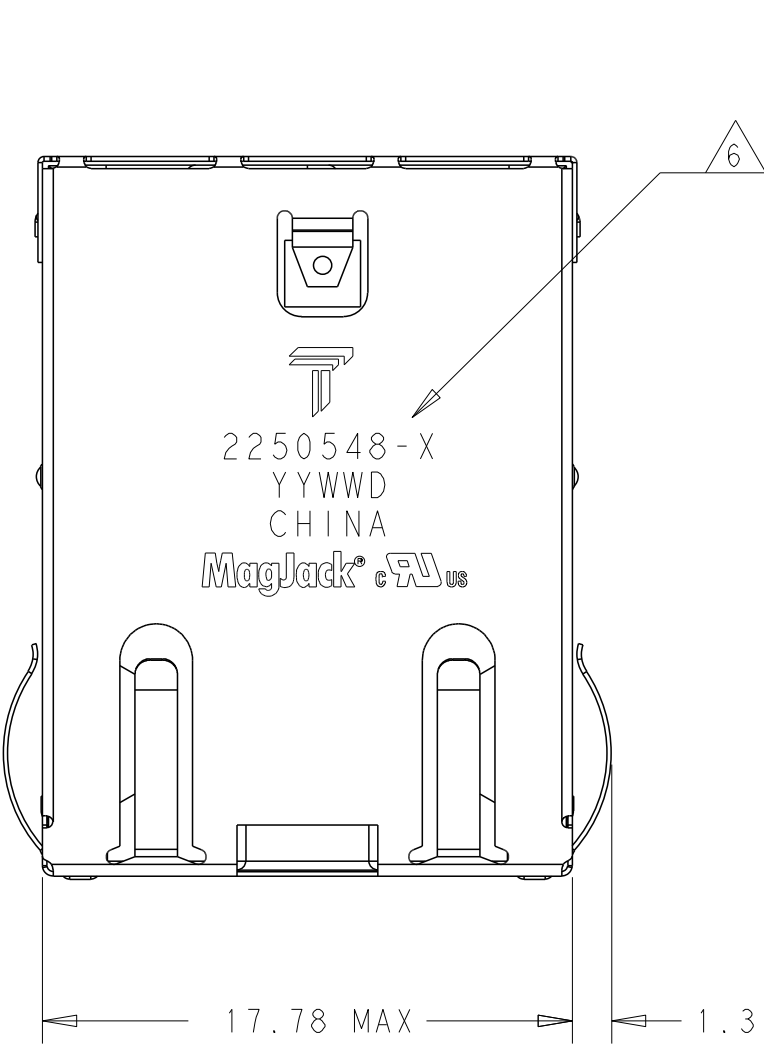
- APPLICATION: 10/100/1000 BASE-T EXTEND TEMPERATURE
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO 100°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTINAL
- PERFORMANCE @ 25°C:
 - INSERTION LOSS (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: 2250 VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC

4. OPERATING TEMPERATURE: FROM -40°C TO 100°C

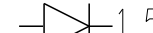
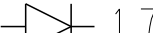
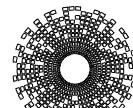
5 LED IS WITH CONSTANT CURRENT AT APPROX 20mA.
LED COLOR: DONINANT WAVELENGTH(λD), GREEN = 568±5nm TYP. at IF=20mA
FORWARD VOLTAGE(VF), GREEN 2.2V TYP. at IF=20mA.
DONINANT WAVELENGTH(λD), YELLOW = 588±5nm TYP. at IF=20mA.
FORWARD VOLTAGE(VF), YELLOW 2.1V TYP. at IF=20mA.

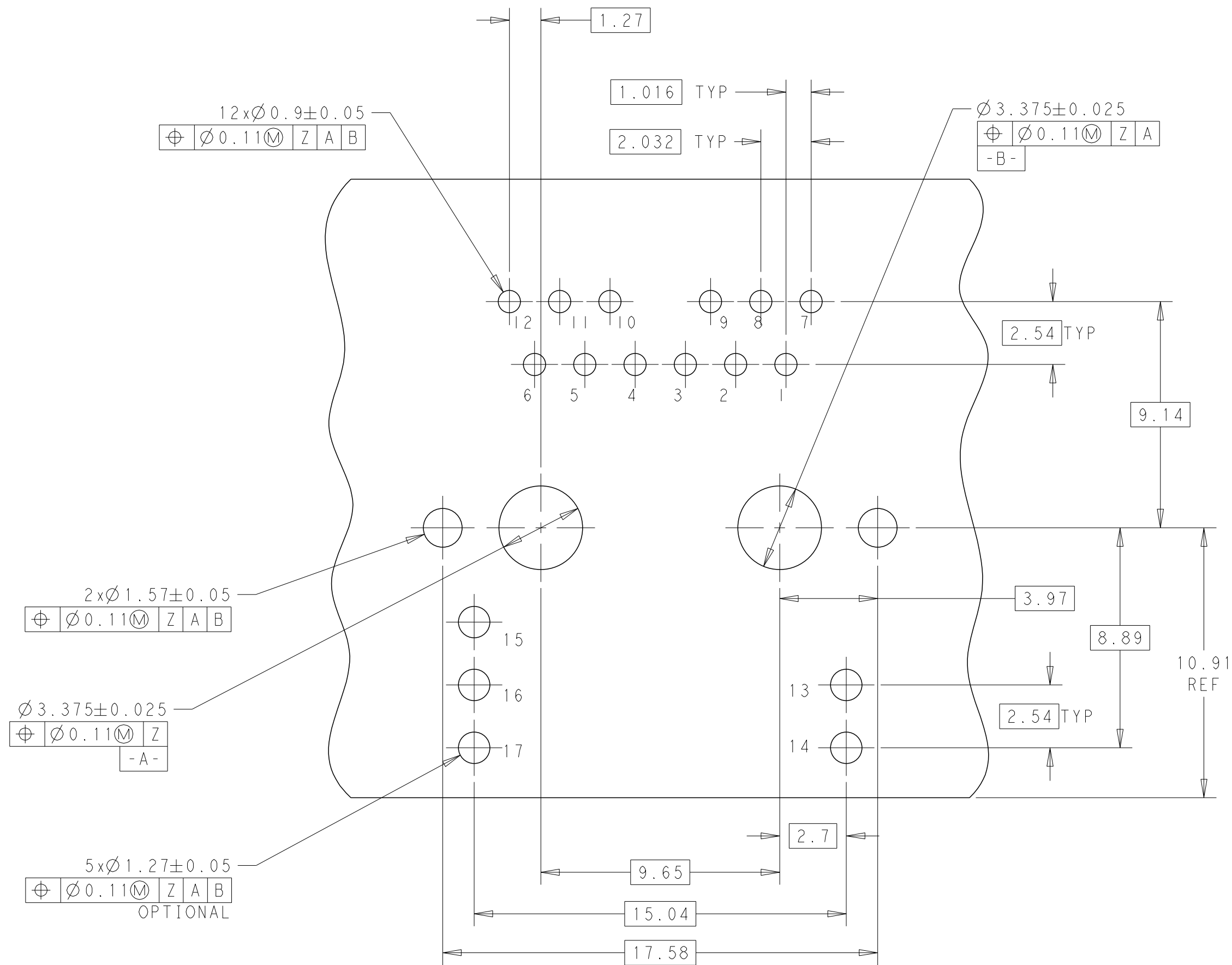
6 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

7 PART SHOULD BE COMPLIANT TO WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX



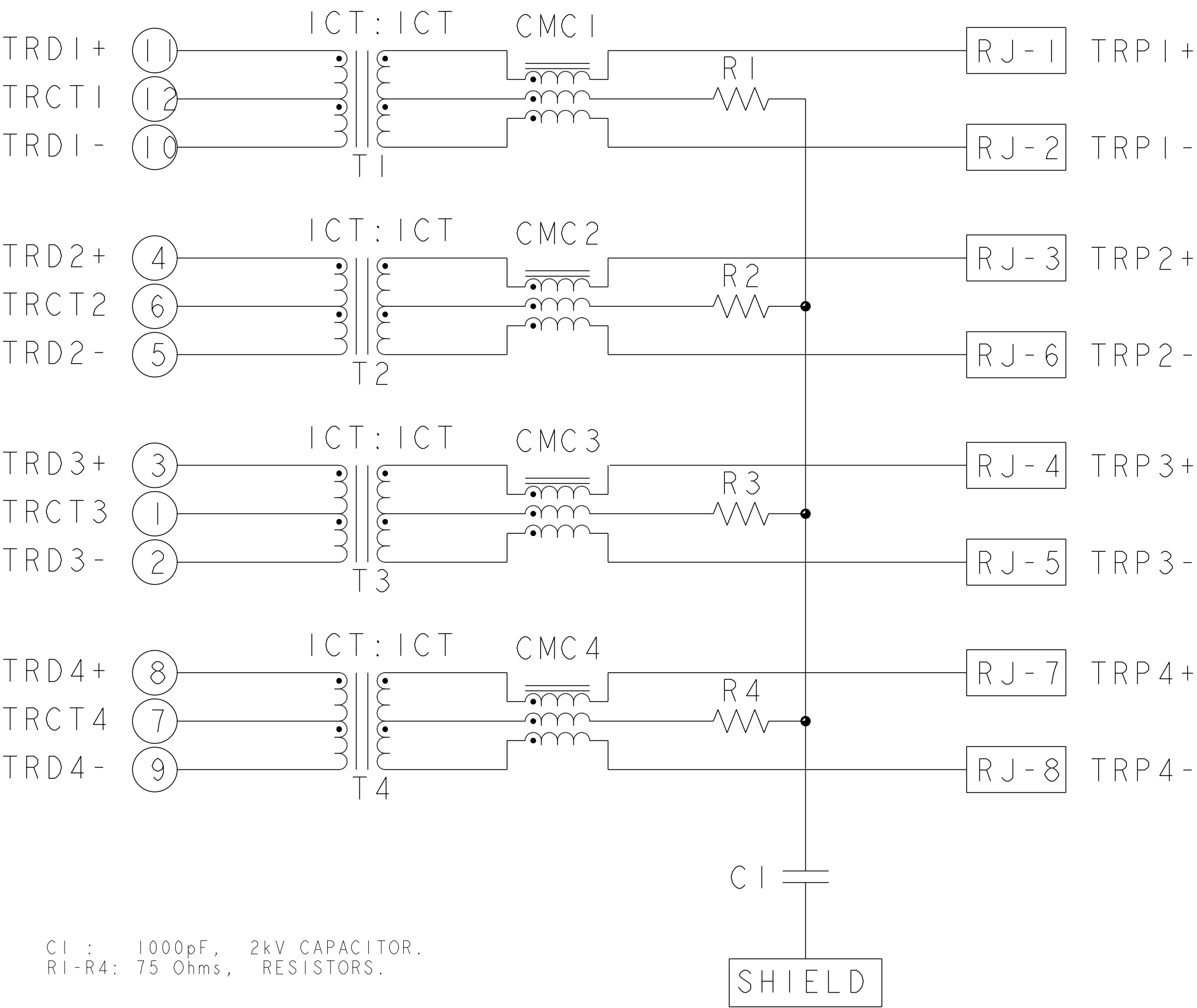
SUGGESTED PANEL CUTOUT

TRAY	WAVE SOLDERING		YELLOW	GREEN	GREEN	2250548-1
PACKAGE METHOD	SOLDERING PROCESS		16  15	16  17	14  13	PART NO.
			LED 2		LED 1	
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M			DWN: 25SEP2017 JARRY YE / FRANK LIU CHK: 25SEP2017 TOWER YU / BILLY LIU APVD: 25SEP2017 TONY YUAN		 trp CONNECTOR a del group DONGGUAN CHINA	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DESC: 1X1 1G18ETL GIGABIT TAB UP LOW PROFILE W/ LED		
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±°		SIZE: A1 CAGE CODE: C=2250548 DRAWING NO: 108-104004		
PRODUCT SPEC 108-104004		APPLICATION SPEC -		RESTRICTED TO: -		
CUSTOMER DRAWING			SCALE: 4:1		SHEET 1 OF 3 REV 1	



SUGGESTED PCB LAYOUT

IG18ETL GIGABIT CIRCUIT

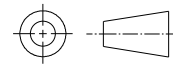


C1 : 1000pF, 2kV CAPACITOR.
R1-R4: 75 Ohms, RESISTORS.

C_2250548					STOCK DISPOSITION			
					A: CONTINUE AS IS		D: USE OLD FIRST	
					B: REWORK		E: PARTS TO CONFORM	
REVISION HISTORY					C: SCRAP		F: OTHER	
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)
25SEP2017	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-

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AND COMPLIANT TO ASME Y14.5M

DIMENSIONS:
mm



PRODUCT SPEC
108-104004

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC ±0.25

1 PLC ±0.25

2 PLC ±0.25

3 PLC ±

4 PLC ±

ANGLES

APPLICATION SPEC

-

OWN
JARRY YE / FRANK LIU
25SEP2017

CHK
TOWER YU / BILL LIU
25SEP2017

APVD
TONY YUAN
25SEP2017

MODEL NAME
MAGJACK

SINGLE Non-PoE

CUSTOMER DRAWING



trpCONNECTOR

abel group

DONGGUAN
CHINA

DESC
IXI 1G18ETL GIGABIT
TAB UP LOW PROFILE W/ LED

SIZE
A1

CAGE CODE

DRAWING NO
C=2250548

RESTRICTED TO
-

SCALE
4:1

SHEET
3

OF
3

REV
1