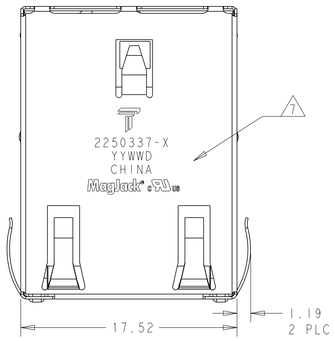
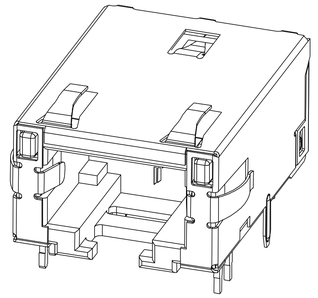
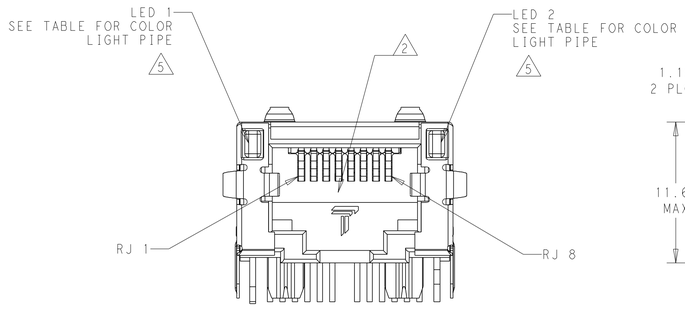
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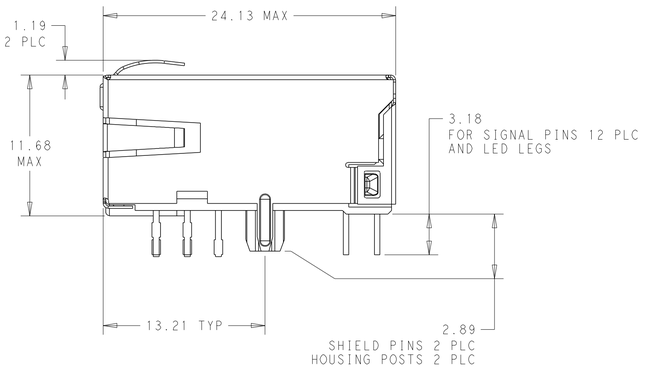
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	D	EC-2509002	05SEP2025	TRY	TY

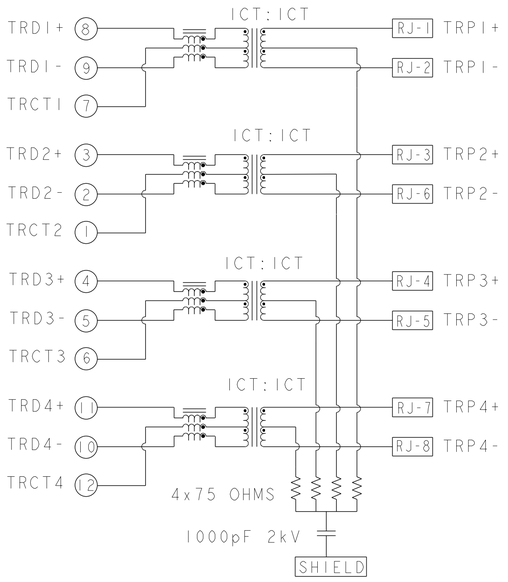








8TG08ET 10GIGABIT CIRCUIT 3 4



1. MATERIALS:
   - HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
   - SHIELD: 0.20mm THICK, BRASS PREPLATED WITH 0.76 um MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 3.8 um MIN TIN
   - MOD JACK CONTACTS: 0.3mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, WITH 1.27 um 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.
   - LIGHT PIPE: POLYETHER SULFONE

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

3 MAGNETICS:
   - APPLICATION: 1G/10G BASE-T, EXTENDED TEMPERATURE
   - IMPEDANCE: 100 OHMS
   - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
   - OPEN CIRCUIT INDUCTANCE (OCL): 160 uH MIN @ 100kHz, 0.1VRMS, 8mA DC BIAS FROM -40°C TO +85°C, ALL FOUR PAIRS
   - ALL FOUR PAIRS BI-DIRECTIONAL
   - PERFORMANCE @25C (WHERE f IS FREQUENCY IN MHz)
     - INSERTION LOSS (Min)
       1MHz to 200MHz = -0.8 dB
       200MHz to 400MHz = -1.4 dB
     - RETURN LOSS (Max)
       1MHz to 40MHz = -18 dB
       40MHz to 400MHz = -18+10*LOG10(f/40) dB
       400MHz to 500MHz = -8+30*LOG10(f/400) dB
     - CROSSTALK (Max)
       1MHz to 500MHz = -20 dB
     - COMMON MODE REJECTION (Max)
       1MHz to 250MHz = -20 dB
       250MHz to 500MHz = -20+25*LOG10(f/250) dB
   - ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC,

4. OPERATING TEMPERATURE: FROM -40°C TO +85°C

5 LIGHT PIPES ARE USED TO TRANSMIT LIGHT OF LED.
LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
DOMINANT WAVELENGTH (λD): ORANGE 605nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF=20mA
DOMINAT 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

6. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

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

8 THE PART COMPLIANTS 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

9 THE PART COMPLIANTS TO IR REFLOW SODERING PROCESS, PEAK SOLDERING TEMPERATURE IS 260°C MAX DURATION TIME 10 SECONDS MAX. OVER 230°C WITHIN 40-60 SECONDS.

10. 2250337-1, 2250337-2 AND 2-2250337-1 SHOWN UNLESS OTHERWISE NOTED.

PACKAGE METHOD	SOLDERING PROCESS	LED 1		LED 1	LED 2	PART NO.
TAPE AND REEL	REFLOW 9	YELLOW	-	GREEN	GREEN	2-2250337-1
TRAY	WAVE 8	SEE SHEET 2 FOR DETAIL				1-2250337-1
TRAY	WAVE 8	YELLOW	-	ULWG	ULWG	2250337-2
TRAY	WAVE 8	YELLOW	-	GREEN	GREEN	2250337-1

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±-
4 PLC ±-
ANGLES ±-

PRODUCT SPEC: 108-104004
APPLICATION SPEC: -

DWN: ROY LIU 23SEP2015
CHK: TOWER YU / XENIA WANG 23SEP2015
APVD: TONY YUAN 23SEP2015

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE NON-POE

DESC: 1X1 10G 8TG08ET TAB DOWN LOW PROFILE W/ LED

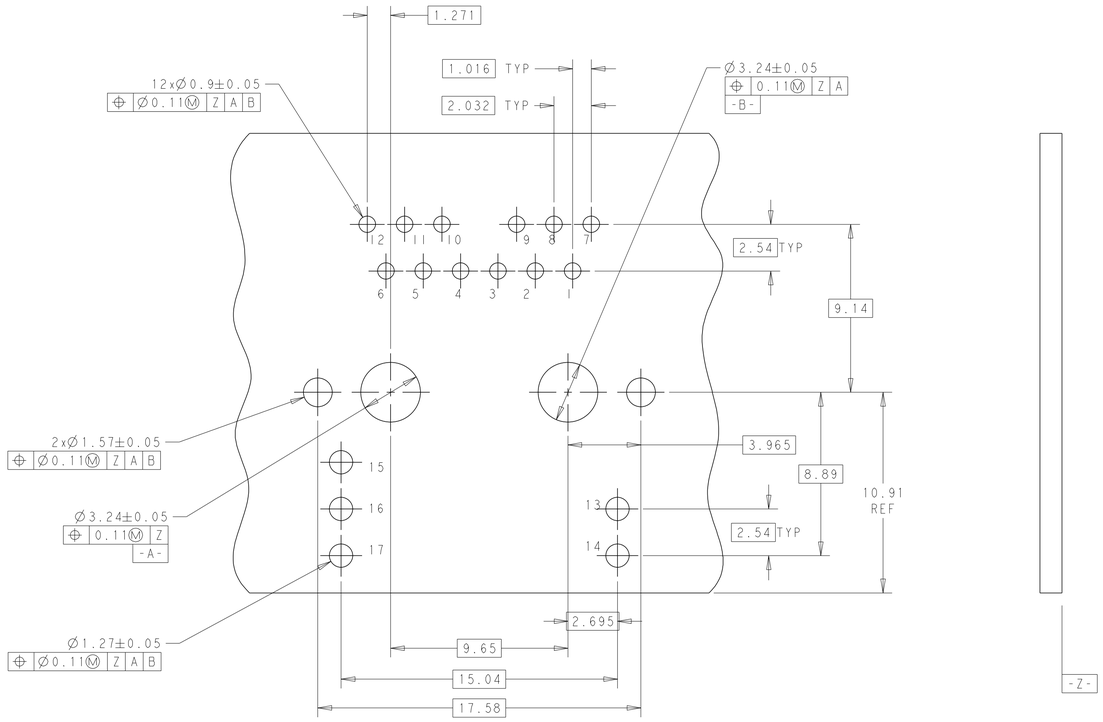
SIZE: A1 | CAGE CODE | DRAWING NO: C-2250337 | RESTRICTED TO: -

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 2 | REV D

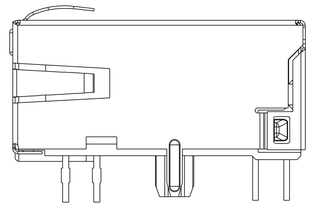
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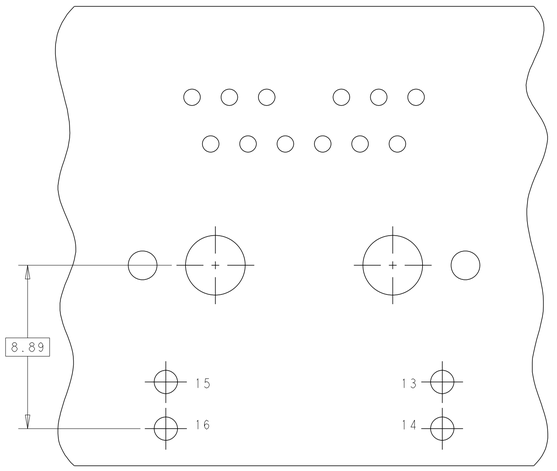
Please read our datasheet & drawing disclaimer here.

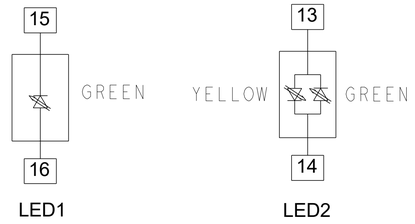
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SUGGESTED PCB LAYOUT
(COMPONENT SIDE)

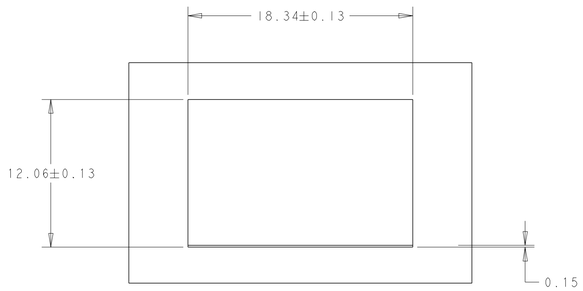




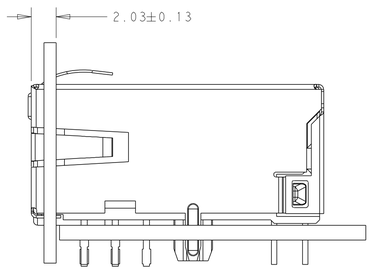


ITEM	LED 1	LED 2	
EMITTED COLOR	GREEN	GREEN	YELLOW
DOMINANT WAVELENGTH (nm)	568	568	588
POWER DISSIPATION (P_D)	75 mW MAX	75 mW MAX	75 mW MAX
DC FORWARD CURRENT I_F	30 mA MAX	30 mA MAX	30 mA MAX
FORWARD VOLTAGE (V_F) @20mA	2.2V	2.2V	2.1V

1-2250337-1



SUGGESTED PANEL CUTOUT



THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN ROY LIU 23SEP2015	trp CONNECTOR a 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 ±	CHK TOWER YU / XENIA WANG 23SEP2015	
		APVD TONY YUAN 23SEP2015	
		MODEL NAME: MAGJACK SINGLE NON-POE	DESC: IXI 10G 8TG08ET TAB DOWN LOW PROFILE W/ LED
PRODUCT SPEC: 108-104004	APPLICATION SPEC: -	SIZE A1 / CAGE CODE / DRAWING NO: C-2250337	RESTRICTED TO: -
		CUSTOMER DRAWING	SCALE 4:1 / SHEET 2 OF 2 / REV D

xxxxx