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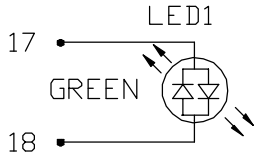
PRELIMINARY

RoHS



LED1 POLARITY			LED2 POLARITY		
PIN 17	PIN 18	COLOR	PIN 19	PIN 20	COLOR
+	-	YELLOW	+	-	YELLOW
-	+	GREEN	-	+	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TP1	1CT : 1CT
TP2	1CT : 1CT
TP3	1CT : 1CT
TP4	1CT : 1CT

INS. LOSS (MAX)

1MHz TO 20MHz	-0.8 dB
50MHz	-1.0 dB
200MHz	-1.2 dB
400MHz	-2.0 dB
500MHz	-3.0 dB

RET. LOSS (MIN)

1MHz - 40MHz	-16 dB
40MHz - 400 MHz	-16+10LOG (F/40) dB
400MHz - 500 MHz	-6+30LOG (F/400) dB

CM TO DM REJ

1MHz - 500MHz	-20 dB MIN

HIPOT (Isolation Voltage): 2250VDC

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

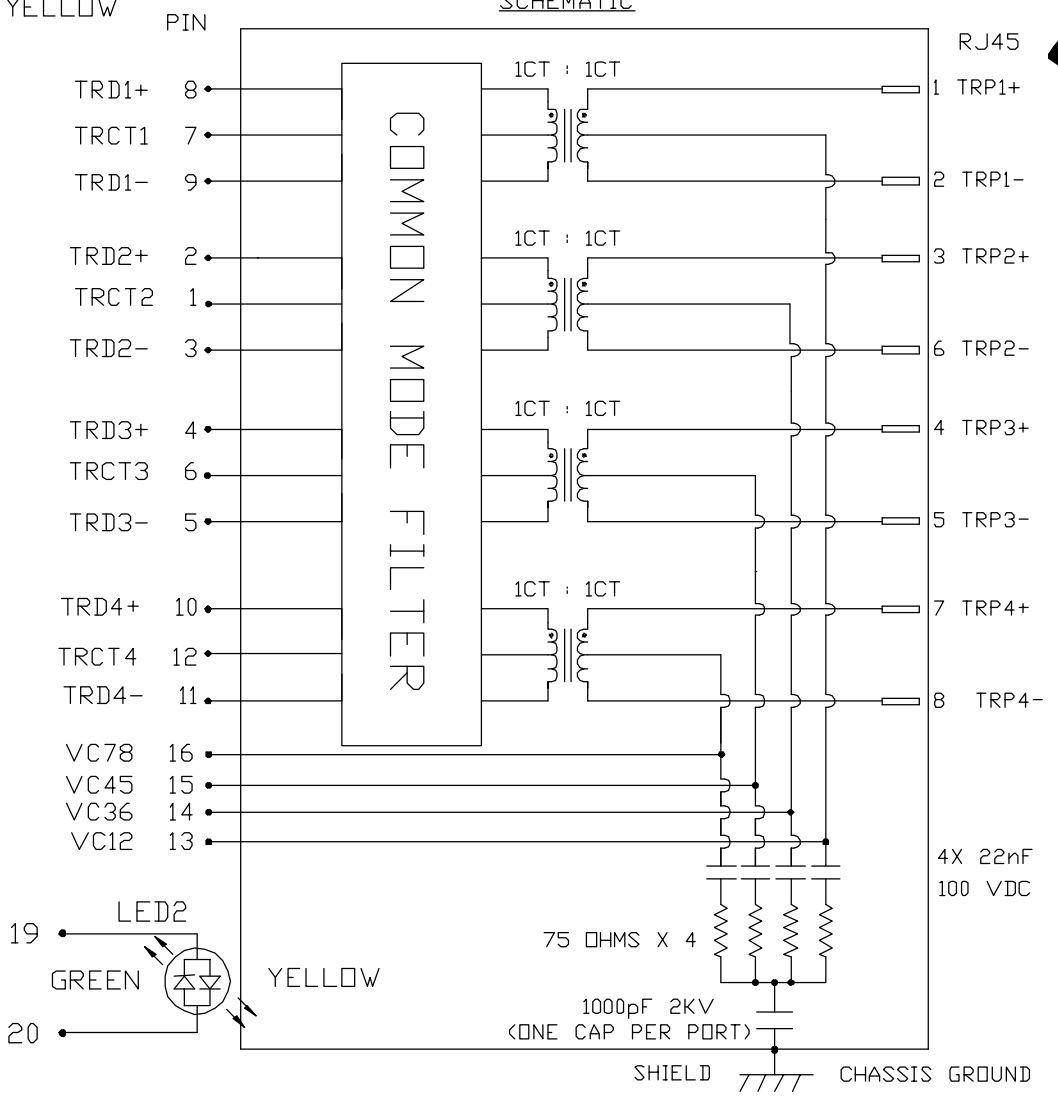
BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS.
1.2A MAX. FOR 200 MILLISECONDS.

LED1 AND LED2

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
		YELLOW	2.1V TYP.
ID (DOMINANT WAVELENGTH)	IF=20mA	GREEN	570nm TYP.
		YELLOW	590nm TYP.

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

SCHEMATIC



REV. : 2	PAGE : 2

ORIGINATED BY CHOW WANCHUNG DATE 2023-07-07	TITLE 10 gigabit MagJack® 60w 4PPoE PATENTED	PART NO. / DRAWING NO. G27-122T-015C	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY XENIA WANG DATE 2023-07-07		FILE NAME G27-122T-015C_2.DWG		

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Please read our datasheet & drawing disclaimer here.

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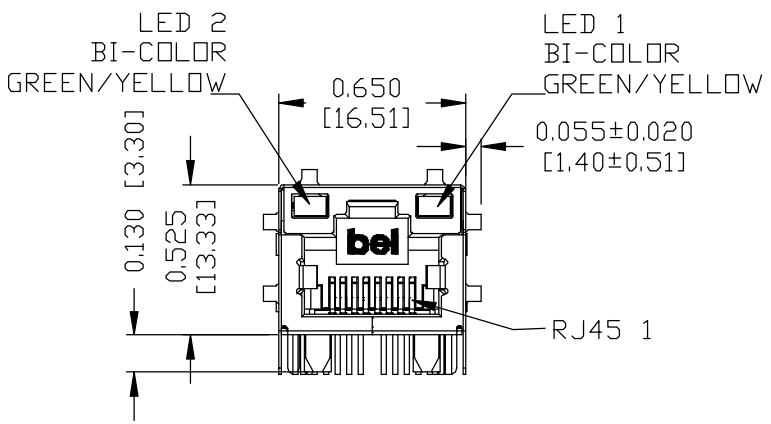
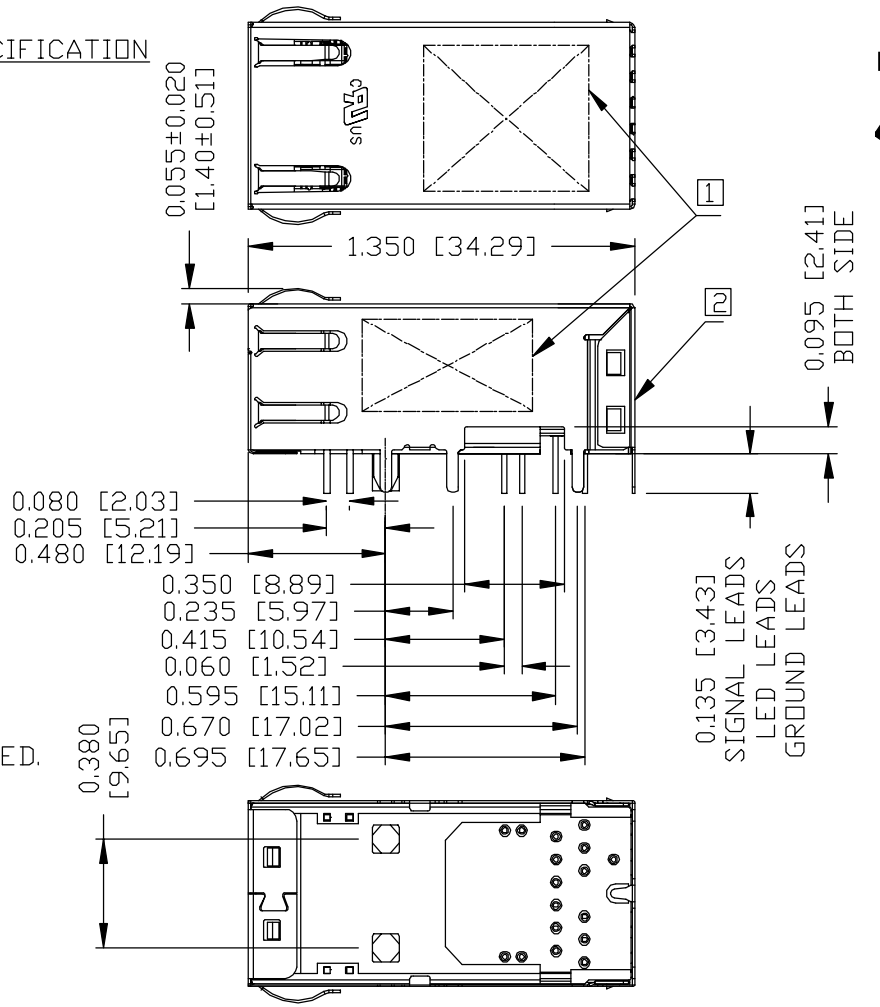
MECHANICAL SPECIFICATION

RoHS





NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT

OUTPUT PINS: LEAD FREE COPPER WIRES, DIA 0.018 INCH.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

UL RECOGNIZED - FILE #E169987.

1. MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER AND DATE CODE.
2. MARKING "PATENTED" IN BACK VIEW.
3. THE PRODUCT IS RoHS COMPLIANT.
4. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
5. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 7,924,130 AND U.S. PAT. 7,429,195 AND U.S. PAT. 6,840,817.
6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.
7. THE PART IS COMPLIANT WITH WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX..

REV. : 2 | PAGE : 3

ORIGINATED BY: ANTON LIAO DATE: 2023-07-07	TITLE: 10 gigabit MagJack® 60w 4PPoE PATENTED	PART NO. / DRAWING NO.: G27-122T-015C FILE NAME: G27-122T-015C_2.DWG	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX ±0.010
DRAWN BY: TOWER YU DATE: 2023-07-07			[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4

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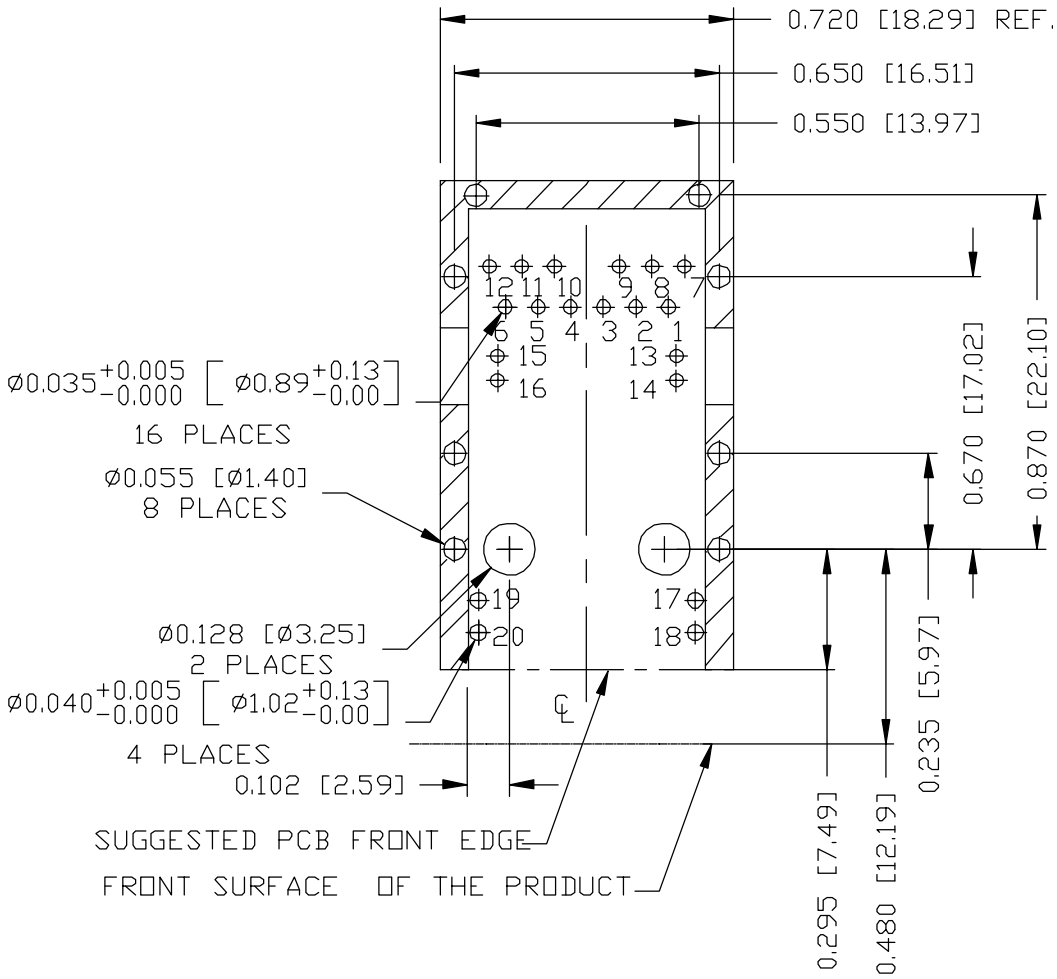
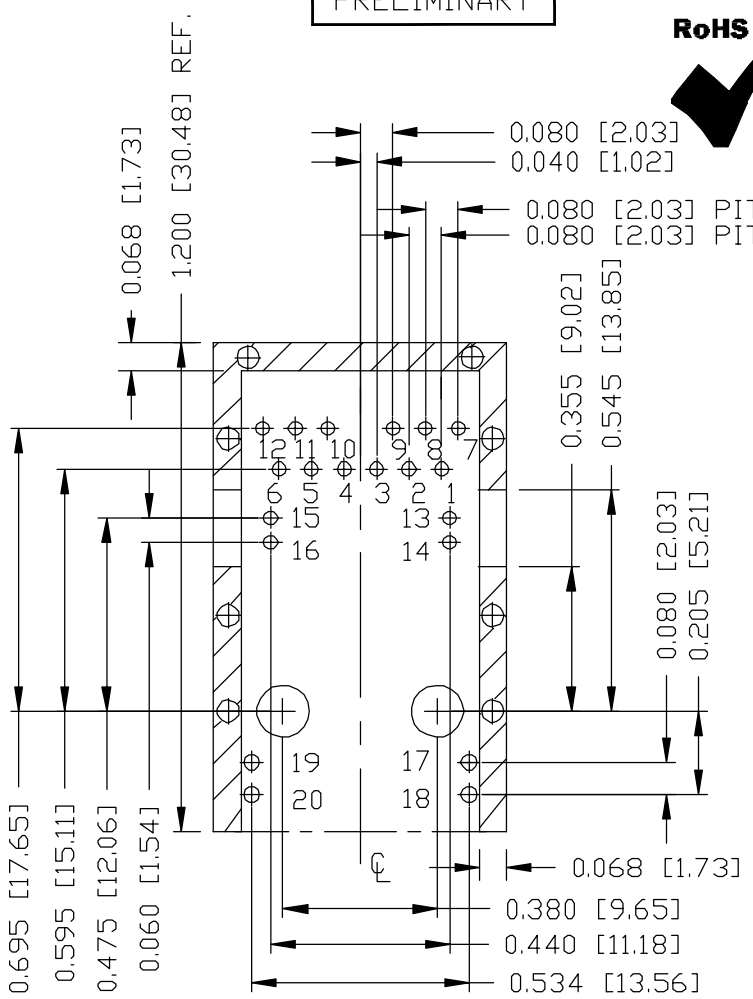
PRELIMINARY

RoHS

RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW





NOTES:

THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY ANTON LIAO DATE 2023-07-07	TITLE 10 gigabit MagJack® 60w 4PPoE PATENTED	PART NO. / DRAWING NO. G27-122T-015C	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	REV. : 2 / PAGE : 4
DRAWN BY TOWER YU DATE 2023-07-07		FILE NAME G27-122T-015C_2.DWG	.X / .XX / .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group

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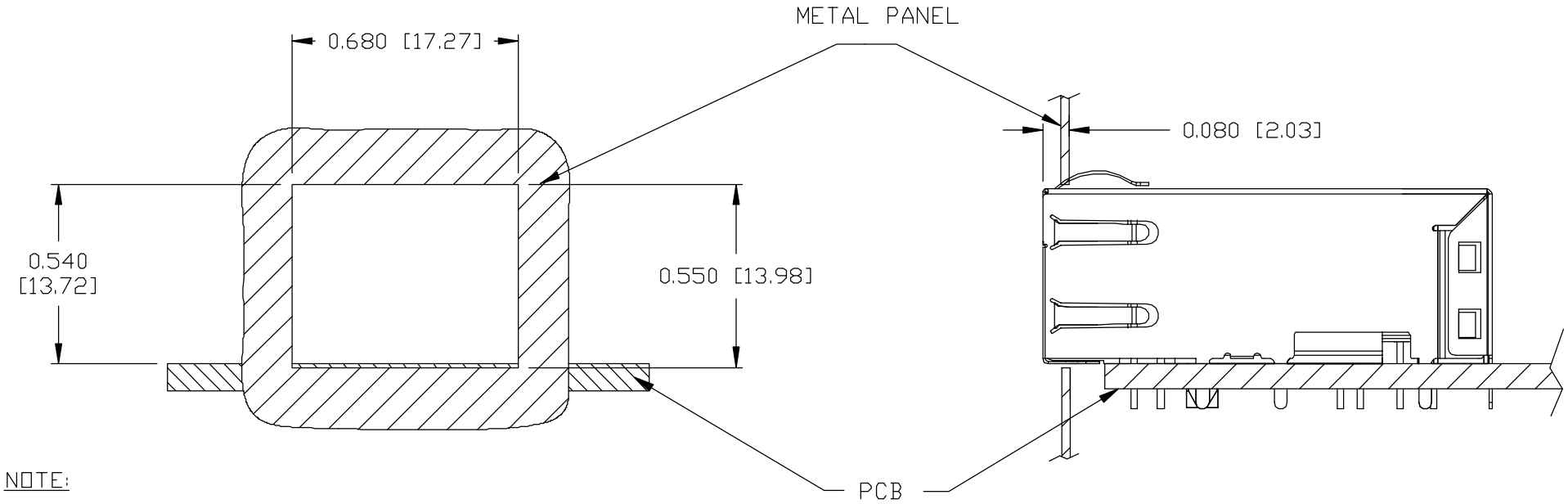
SUGGESTED PANEL OPENING



NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION.
IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

PACKING INFORMATION

PACKING TRAY: : 0200M9999-K8 (TOP)
0200M9999-K7 (BOTTOM)

PACKING QUANTITY : 48 PCS FINISHED GOODS PER TRAY
9 TRAYS (432 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY ANTON LIAO DATE 2023-07-07	TITLE 10 gigabit MagJack® 60w 4PPoE PATENTED	PART NO. / DRAWING NO. G27-122T-015C	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	
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