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LED1 POLARITY			LED2 POLARITY			
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	PIN 17	COLOR
-	+	GREEN	-	+	-	YELLOW
				+	-	GREEN

PRELIMINARY

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

TURN 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	-13+10LOG (F/400) dB

CM TO CM REJ

1MHz - 500MHz	-30 dB MIN
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CM TO DM REJ

1MHz - 500MHz	-30 dB MIN
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HIPOT (Isolation Voltage):

2250VDC

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

LED 1

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP. YFLI PW

LED 2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

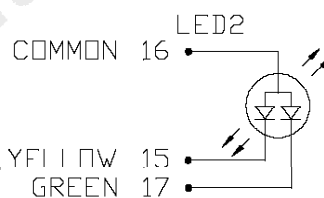
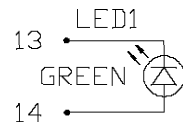
YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

YELLOW 590nm TYP.

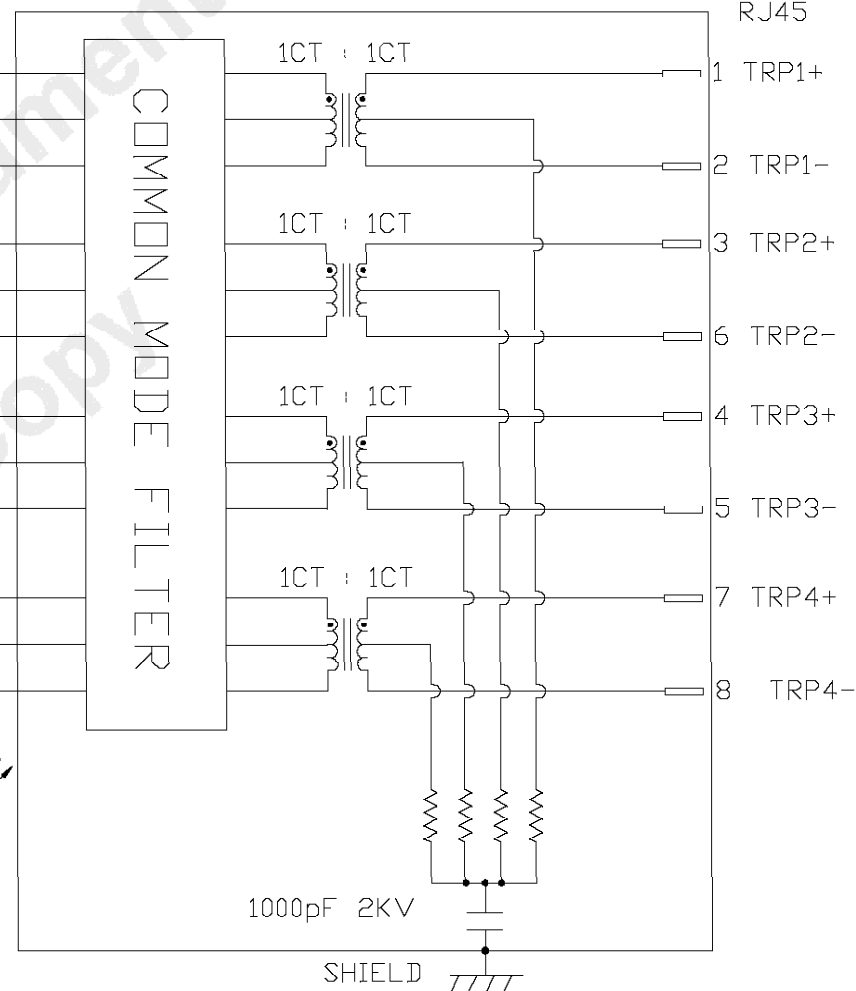
OPERATING TEMPERATURE: -40°C TO +85°C.

PIN



COMMON MODE FILTER

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2021-05-31

TITLE
10 Gigabit MagJack®
(Ultra Low Profile)
PATENTED

DRAWN BY
TANG YUAN
DATE 2021-05-31

PART NO. / DRAWING NO.

G10-1GHT-056H

FILE NAME

G10-1GHT-056H_1.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. :

1

PAGE :

2

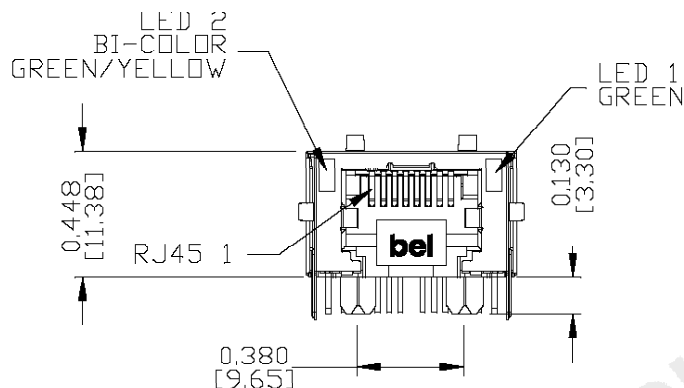


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MECHANICAL SPECIFICATION

PRELIMINARY

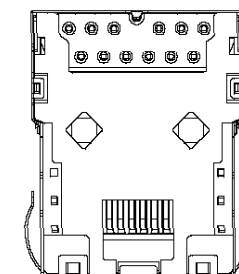
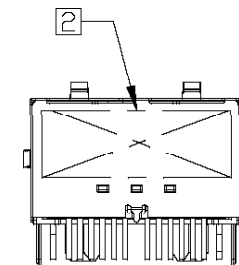
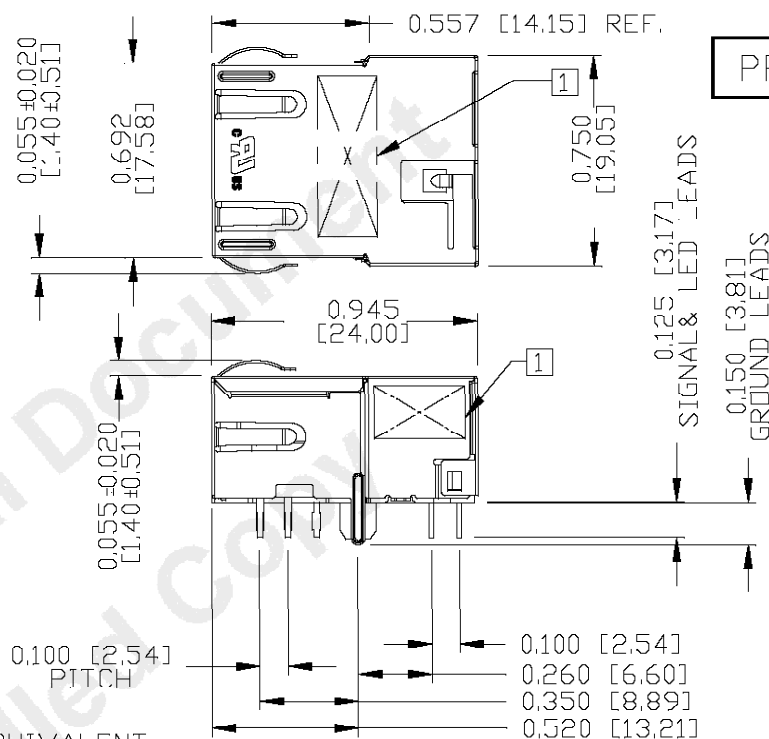
RoHS



NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PA, BLACK, FLAMMABILITY RATING UL 94V-0
- CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- OUTPUT PINS: TIN-COATED COPPER WIRE, 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)

- MARK PART WITH PART NUMBER (G10-1GHT-056H), DATE CODE AND PATENTED.
- MARK PART WITH MFG. LOGO, MFG. NAME ON BACK VIEW.
- THE PRODUCT IS RoHS COMPLIANT, JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.



BOTTOM VIEW



UL RECOGNIZED - FILE #E169987.

- THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX.
- THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE
U.S. PAT. 7,429,195 & U.S. PAT. 7,123,117 & U.S. PAT. 6,840,817
AND U.S. PAT. 7,924,130.
- THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.

REV. : 1

PAGE : 3

ORIGINATED BY
SANDY LIN
DATE 2021-05-31

DRAWN BY
RUAN WENJUN
DATE 2021-05-31

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(Ultra Low Profile)
PATENTED

PART NO. / DRAWING NO.
G10-1GHT-056H

FILE NAME
G10-1GHT-056H_1.DWG

STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4



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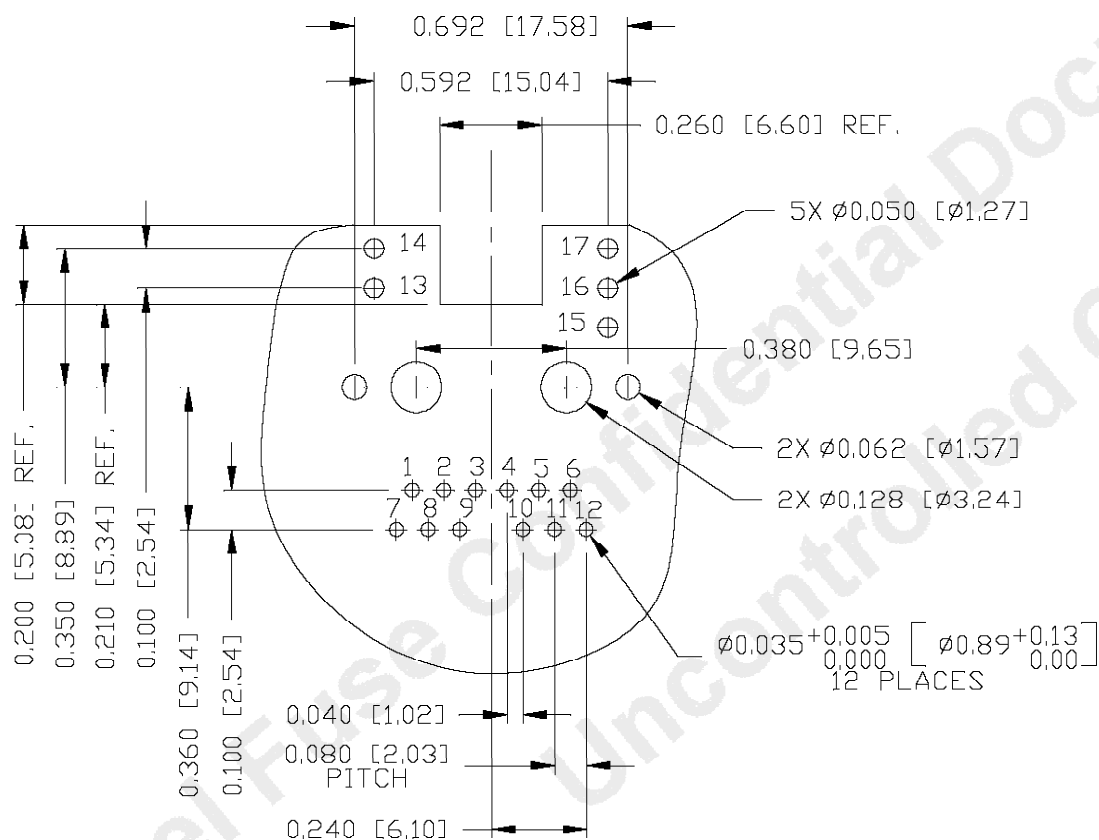
PRELIMINARY

RoHS



RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



FOR ONE UNIT

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

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STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
.X		UNIT : INCH [mm]	
.XX		SCALE : N/A	
.XXX	±0.004	SIZE : A4	

REV. : 1 PAGE : 4



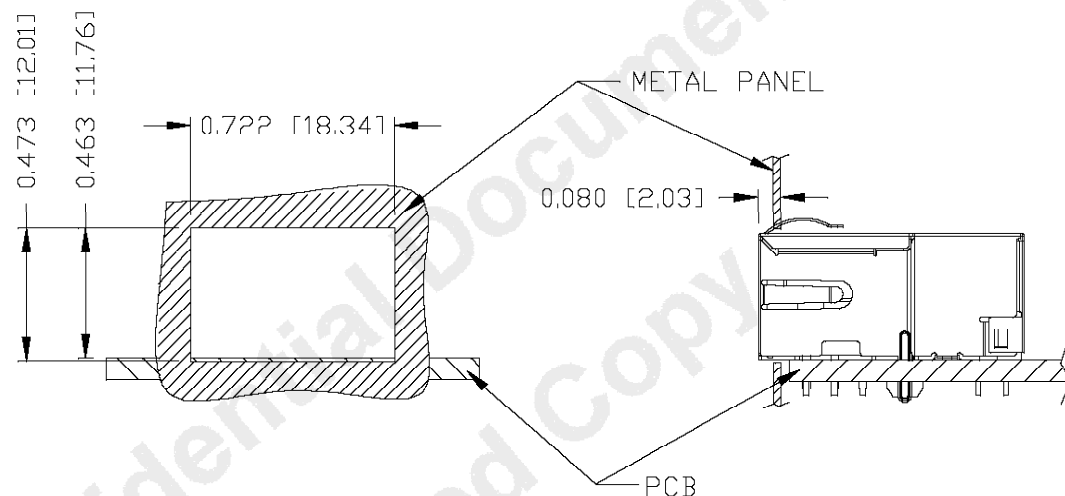
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SUGGESTED PANEL OPENING



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.

TRAY PACKING INFORMATION

PACKING TRAY : 0200-9999-E4 (TOP)

0200-9999-E5 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY

11 TRAYS (660 PCS FINISHED GOODS) PER CARTON BOX

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

REV. :

1

PAGE :

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TOL. IN INCH AS REF.

.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.005	SIZE : A4



bel MAGNETIC SOLUTIONS
a bel group