



POWER | PROTECT | CONNECT

DOCUMENT / PART NO.: G10-1GHT-056J

TITLE : PRODUCT SPECIFICATION

ISSUE	DESCRIPTION OF CHANGE										REVIEWED BY				APPROVED BY				ECN#	
1	PRELIMINARY										TONY YUAN									

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ELECTRICAL CHARACTERISTICS @ 25°C

URNS 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 CM REJ

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

1MHz - 500MHz	-30 dB MIN
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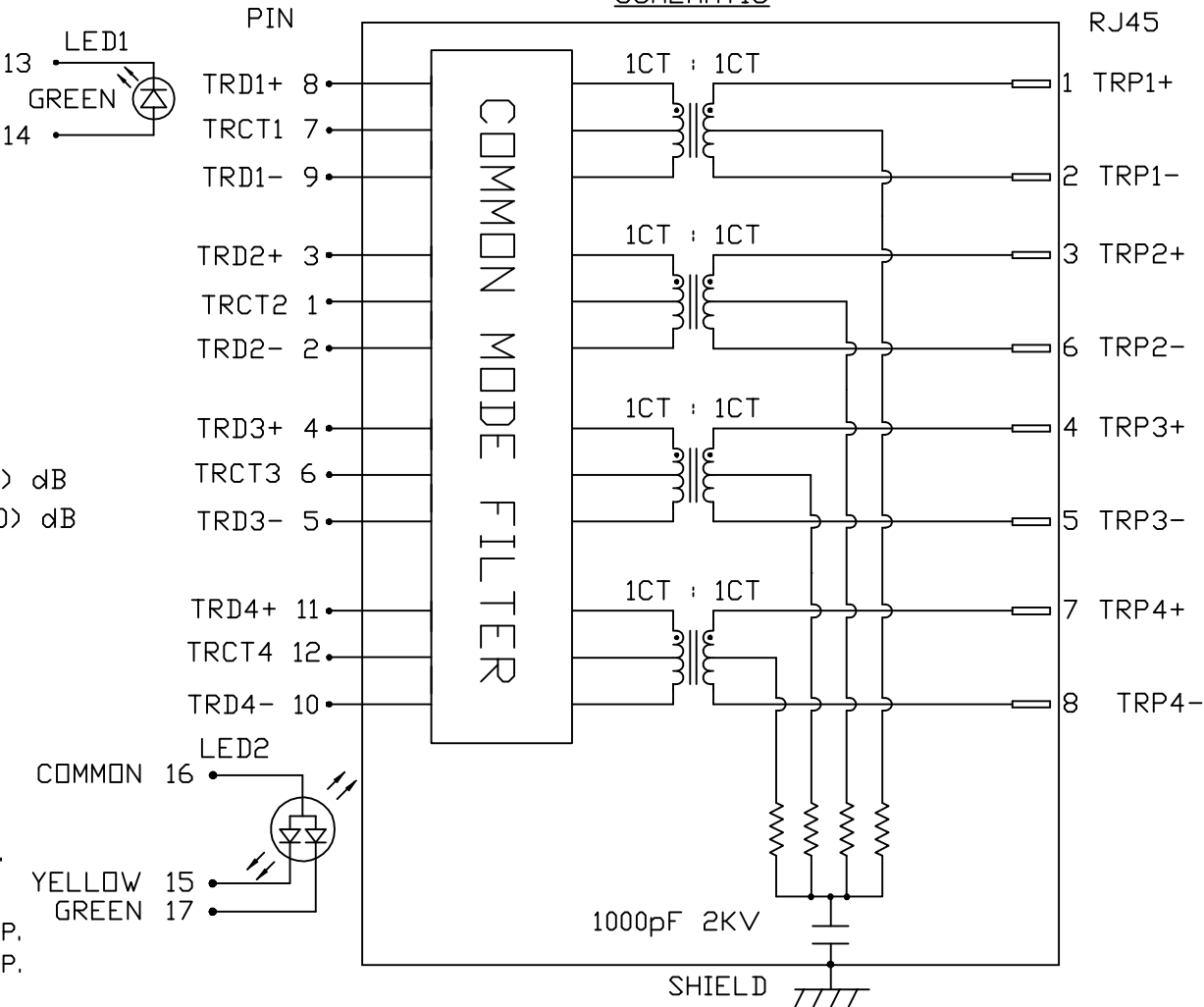
HIPOT (Isolation Voltage): 2250VDC

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

LED

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

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



ORIGINATED BY
BILL LIU
DATE 2024-08-22

DRAWN BY
FRANK LIU
DATE 2024-08-22

TITLE
1X1 10 GIGABIT MagJack®
(Ultra Low Profile)
PATENTED

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

FILE NAME
G10-1GHT-056J_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

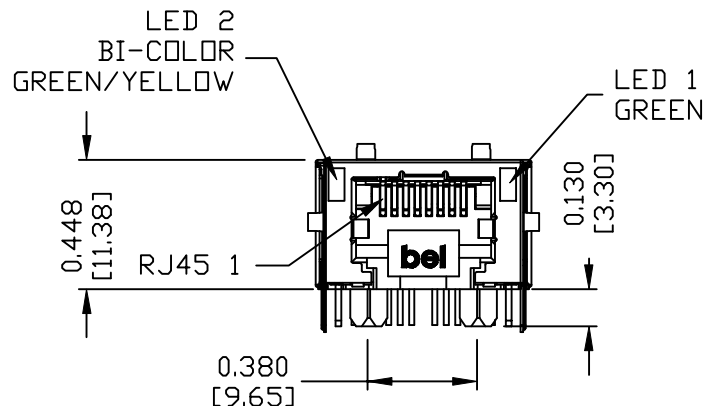


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MECHANICAL SPECIFICATION

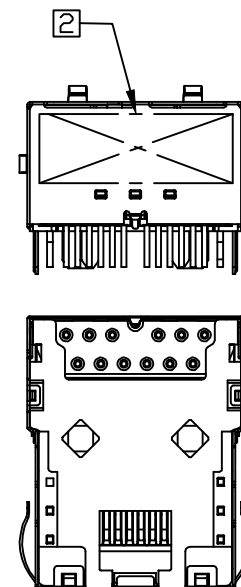
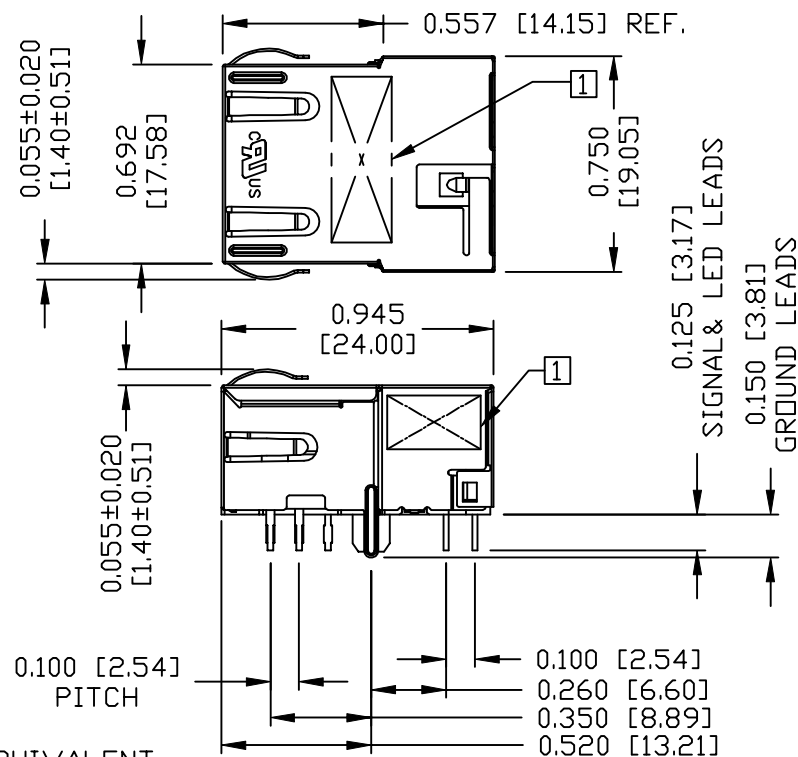
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NOTES:

- 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)

- ① MARK PART WITH PART NUMBER (G10-1GHT-056H), DATE CODE AND PATENTED.
- ② MARK PART WITH MFG. LOGO, MFG. NAME ON BACK VIEW.
3. THE PRODUCT IS RoHS COMPLIANT.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.



BOTTOM VIEW



USUL RECOGNIZED - FILE #E169987.

4. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX..
5. 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.
6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.

ORIGINATED BY
TONY YUAN
DATE 2024-08-22

DRAWN BY
TOWER YU
DATE 2024-08-22

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(Ultra Low Profile)
PATENTED

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

FILE NAME
G10-1GHT-056J_1.DWG

STANDARD DIM.
TOL. IN INCH

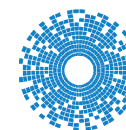
.X
.XX
.XXX ±0.010

[] METRIC DIM.
AS REF.

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

REV. : 1

PAGE : 3



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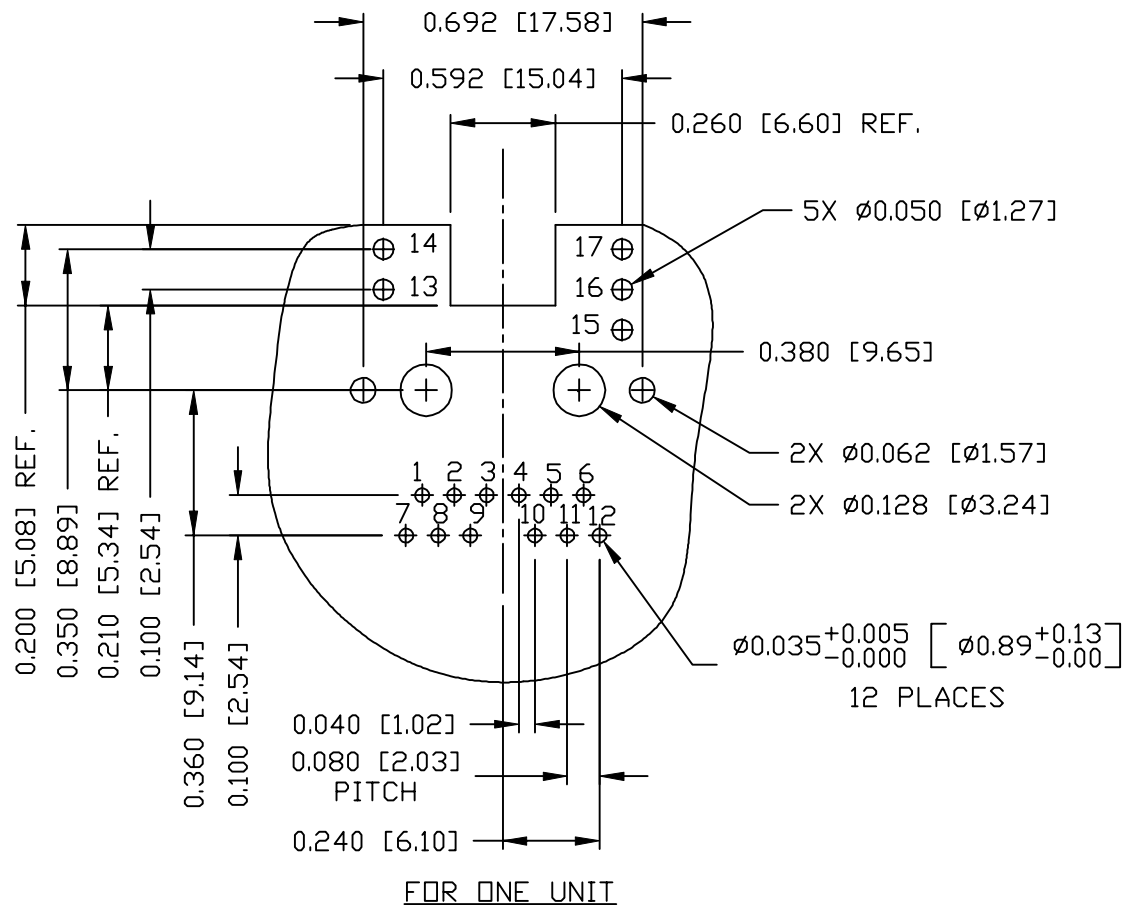
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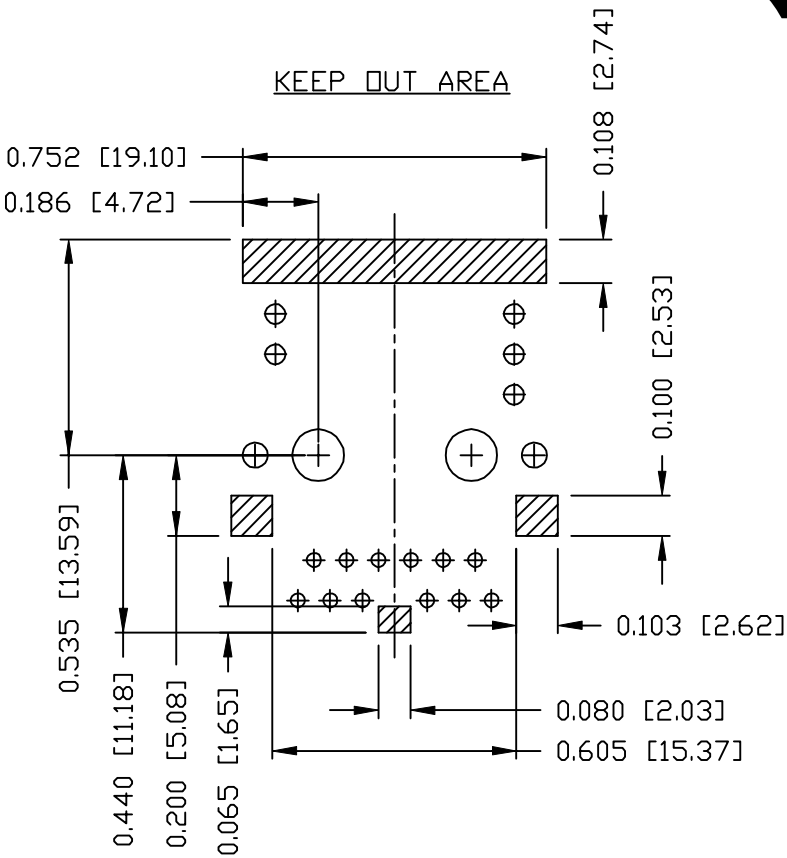


RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



KEEP OUT AREA



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

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FILE NAME
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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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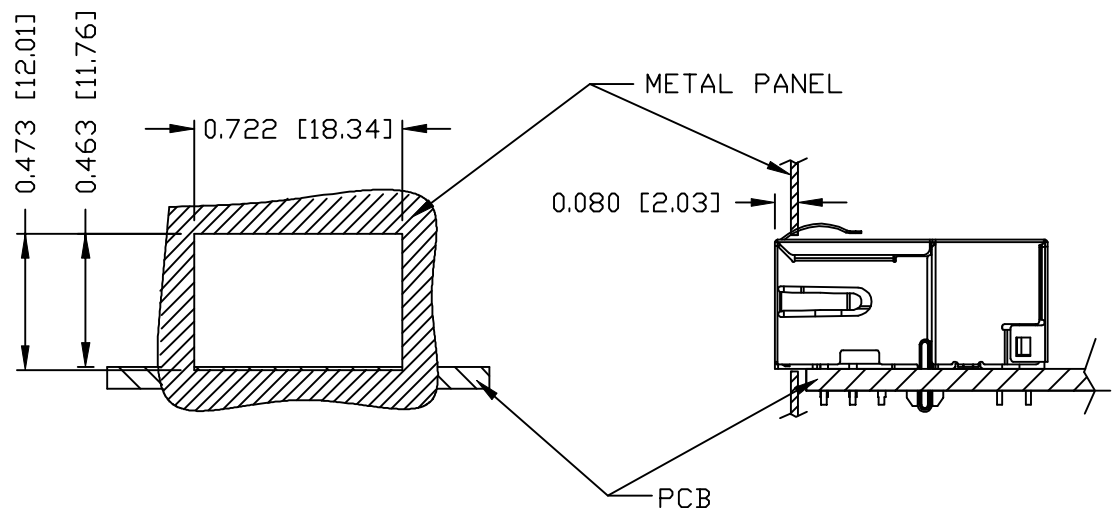


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SUGGESTED PANEL OPENING



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 : 5					
ORIGINATED BY TONY YUAN DATE 2024-08-22		TITLE 1X1 10 GIGABIT MagJack [®] (Ultra Low Profile) PATENTED		PART NO. / DRAWING NO. G10-1GHT-056J		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.			
DRAWN BY TOWER YU DATE 2024-08-22				FILE NAME G10-1GHT-056J_1.DWG		.X		UNIT : INCH [mm]			
						.XX		SCALE : N/A			
						.XXX		±0.005		 SIZE : A4	
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