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ELECTRICAL CHARACTERISTICS @ 25°C

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

RoHS



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.

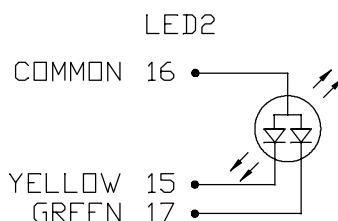
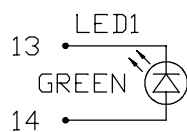
LED 1 (REFERENCE TOLERANCE = +/-1.5nm)

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	567nm TYP.

LED 2 (REFERENCE TOLERANCE = +/-1.5nm)

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
		YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	567nm TYP.
		YELLOW	590nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.



PIN

TRD1+ 8
TRCT1 7
TRD1- 9

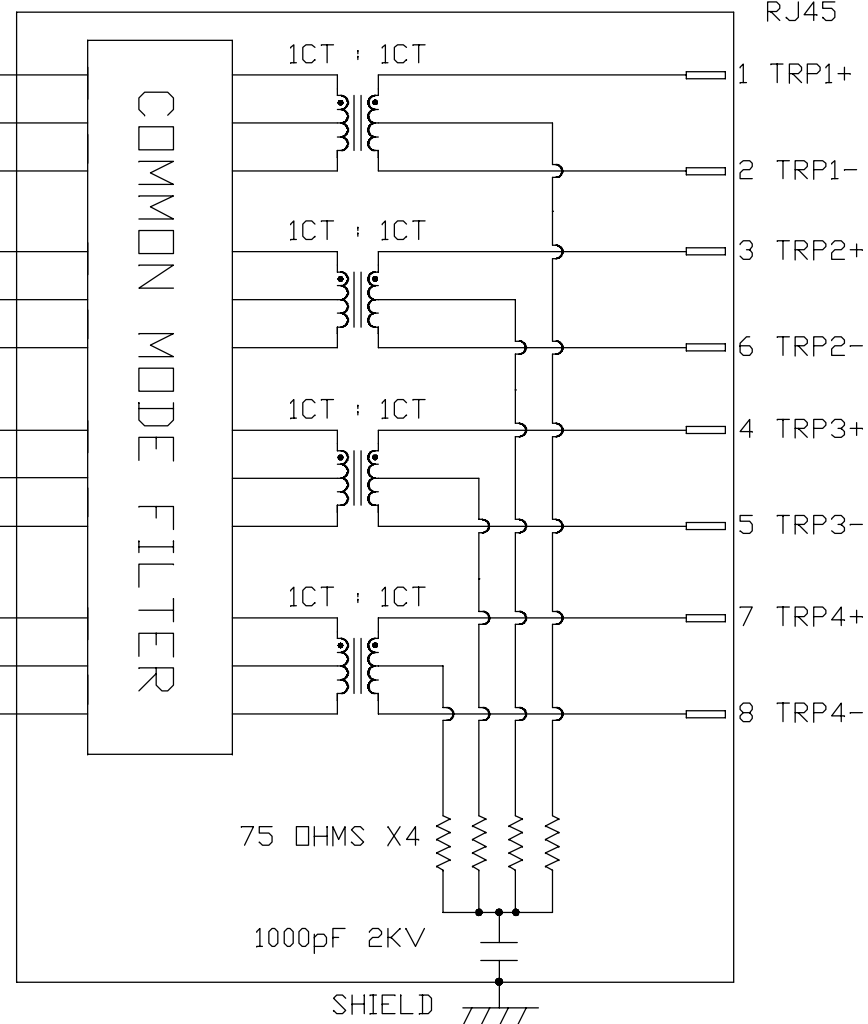
TRD2+ 3
TRCT2 1
TRD2- 2

TRD3+ 4
TRCT3 6
TRD3- 5

TRD4+ 11
TRCT4 12
TRD4- 10

COMMON MODE FILTER

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2017-03-15

TITLE
10 Gigabit MagJack®
(Ultra Low Profile)
G10-1GHN-012E
PATENTED

DRAWN BY
XIE YIMING
DATE 2017-03-15

PART NO. / DRAWING NO.
G10-1GHN012E

FILE NAME
G10-1GHN012E_B.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

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

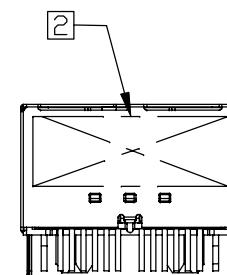
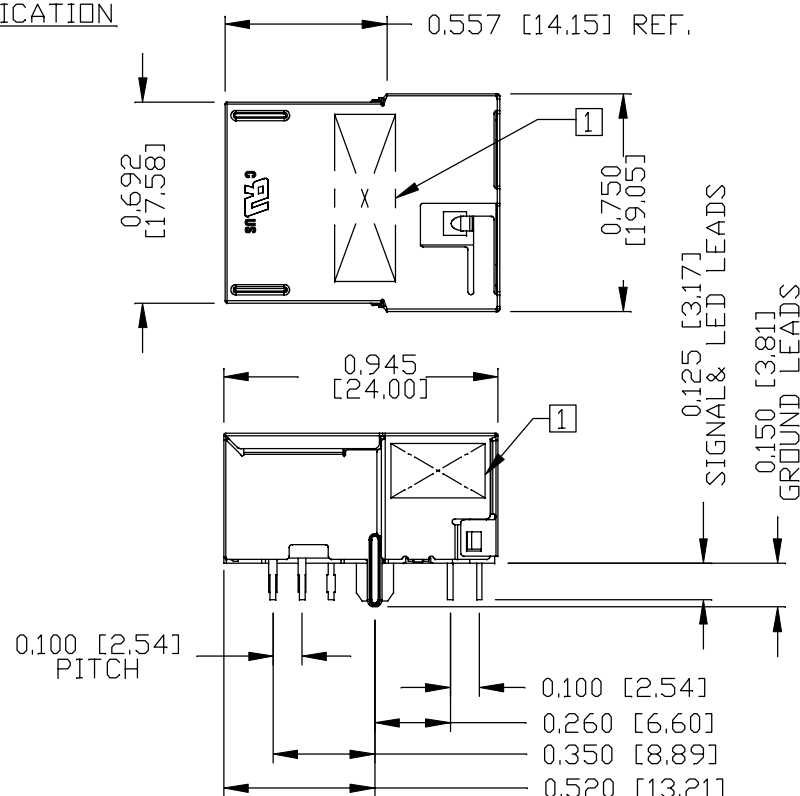
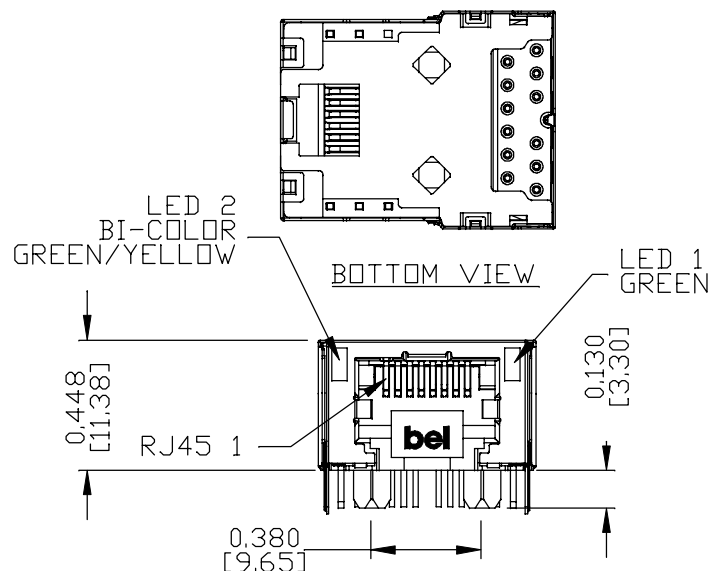
REV. : B

PAGE : 2



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MECHANICAL SPECIFICATION



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 (G10-1GHN-012E), DATE CODE AND PATENTED.
- ② MARK PART WITH MFG. LOGO, MFG. NAME ON BACK VIEW.
3. THE PRODUCT IS RoHS COMPLIANT AND HALOGEN FREE.
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

cULus UL RECOGNIZED - FILE #E169987.

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

ORIGINATED BY
LI QUANKUN
DATE 2017-03-15

DRAWN BY
ZHANG XUEZHENG
DATE 2017-03-15

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(Ultra Low Profile)
G10-1GHN-012E
PATENTED

PART NO. / DRAWING NO.
G10-1GHN012E

FILE NAME
G10-1GHN012E_B.DWG

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TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

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

REV. : B

PAGE : 3

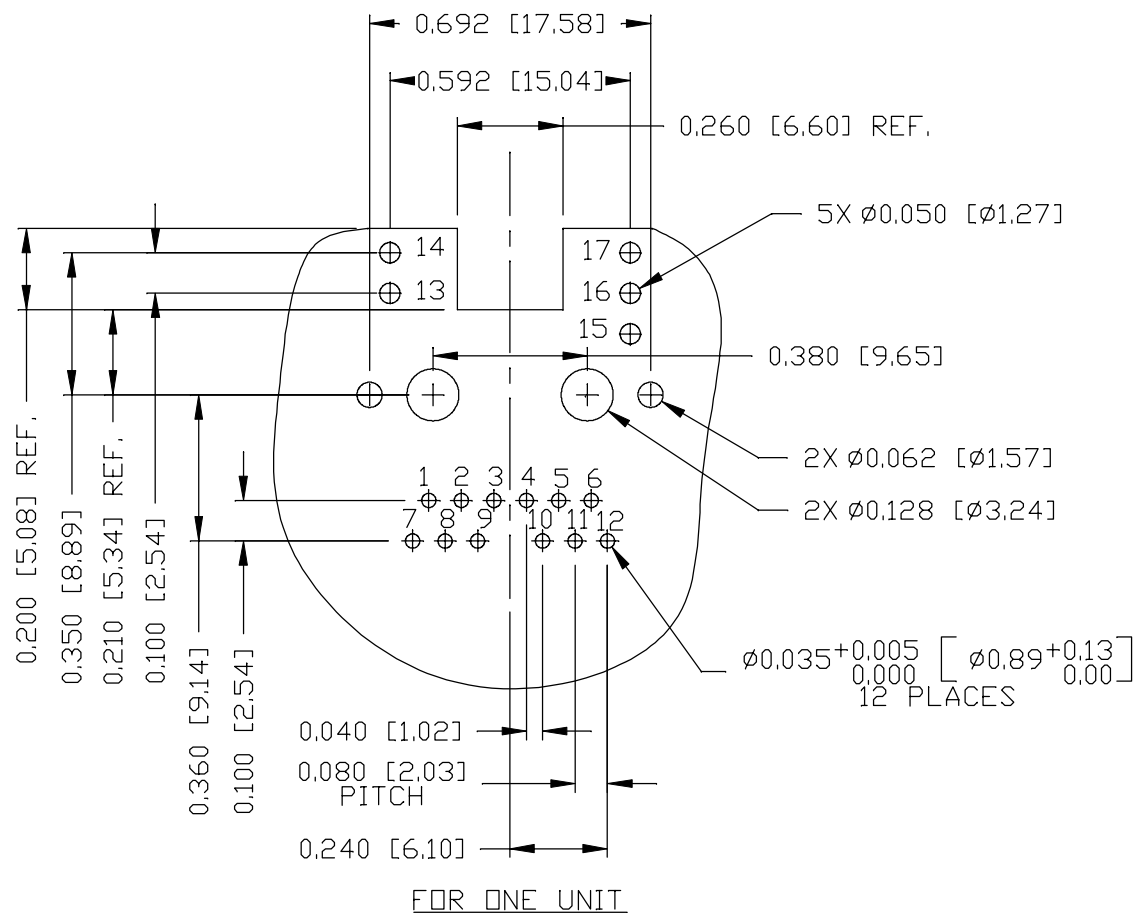


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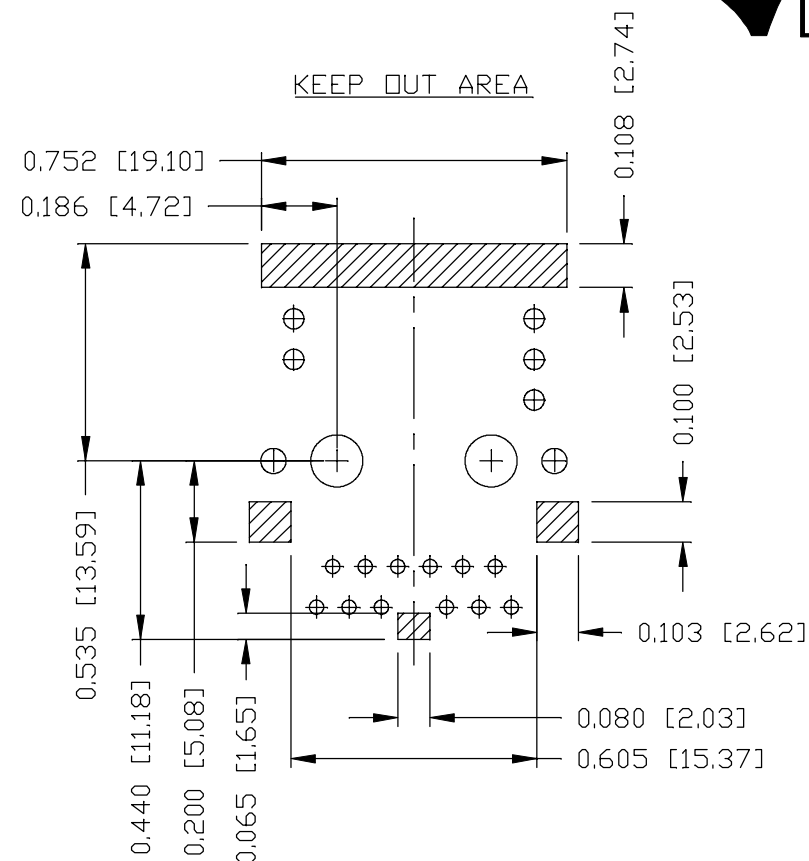


RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW



KEEP OUT AREA



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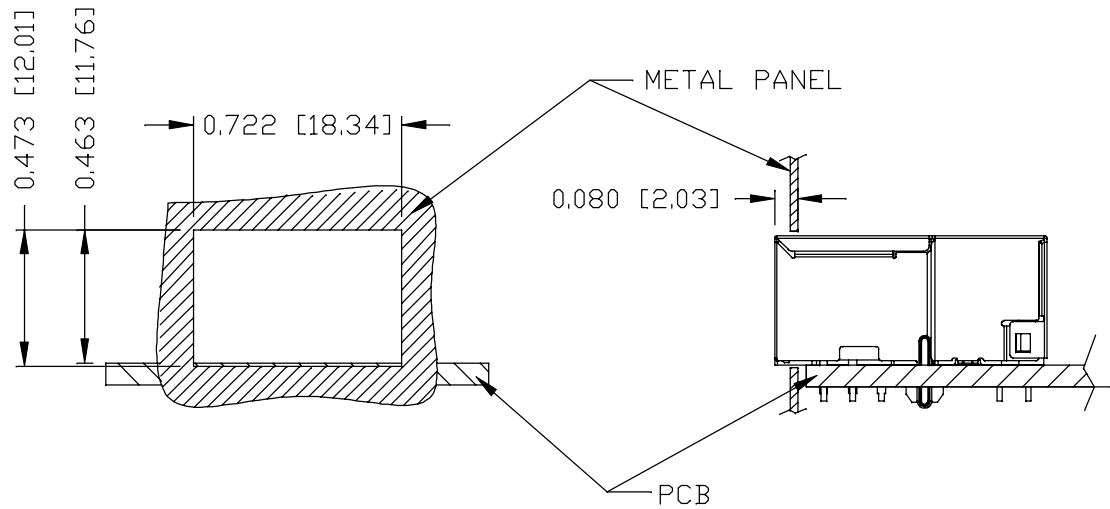
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : B

PAGE : 4



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)

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ORIGINATED BY LI QUANKUN DATE 2017-03-15	TITLE 10 Gigabit MagJack® (Ultra Low Profile) G10-1GHN-012E PATENTED	PART NO. / DRAWING NO. G10-1GHN012E		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
		FILE NAME G10-1GHN012E_B.DWG		.X		UNIT : INCH [mm]	
				.XX		SCALE : N/A	
				.XXX	±0.004		SIZE : A4