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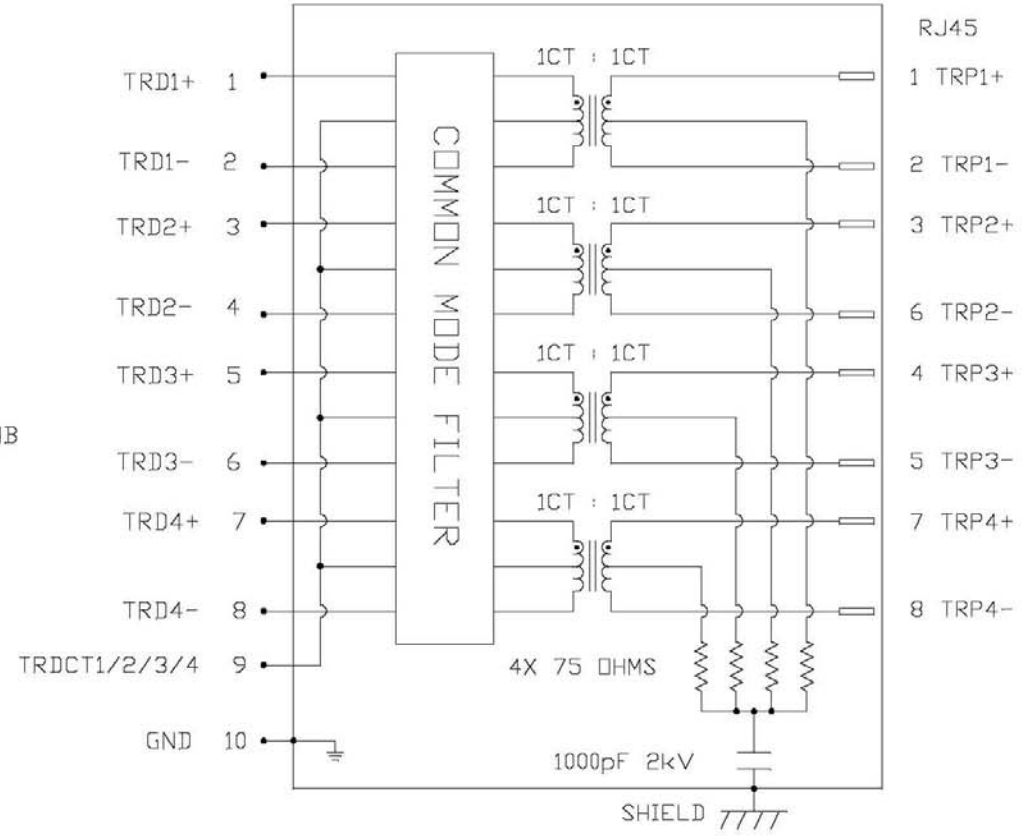
RoHS

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%
OCL @ 100kHz/100mVRMS	
8mA DC BIAS	350µH MIN.
INS. LOSS	
0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.5 dB MAX
65MHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.2 dB MAX
RET. LOSS (MIN)	
0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(f/80MHz) dB
CM TO CM REJ	
100kHz - 100MHz	-30 dB MIN
CM TO DM REJ	
100kHz - 100MHz	-35 dB MIN
HIPOT (Isolation Voltage):	1500 Vrms
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.	
OPERATING TEMPERATURE:	0°C TO +70°C.

SCHEMATIC



REV. : PC | PAGE : 2

ORIGINATED BY CHOW WANCHUNG DATE 2019-08-13	TITLE 2X1 gigabit MagJack® PRESS FIT 08G0-281D-GUA PATENTED	PART NO. / DRAWING NO. 08G0-281DGUA	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY XIE YIMING DATE 2019-08-13		FILE NAME 08G0-281DGUA_PC.DWG		

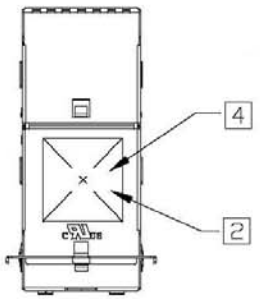
bel MAGNETIC SOLUTIONS
a bel group

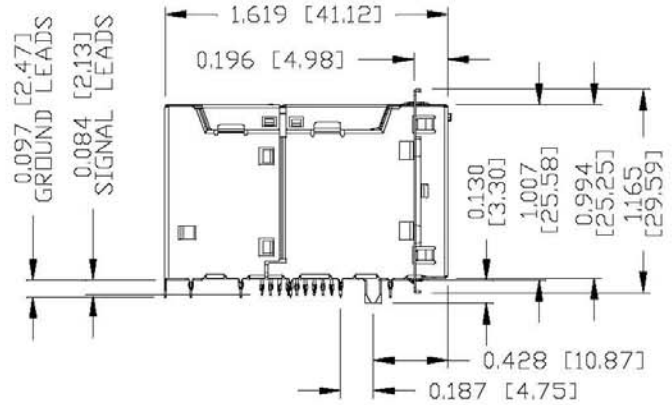
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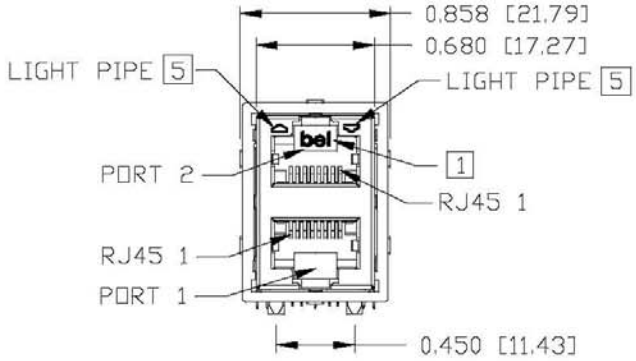
Please read our datasheet & drawing disclaimer here.

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NOTES:

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

CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT

OUTPUT PINS: NICKEL PLATED ON COPPER ALLOY PRESS FIT PINS

METAL SHIELD: NICKEL OR TIN PLATED ON COPPER ALLOY.

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

2. MARK PART WITH MFG LOGO, NAME, PART NUMBER AND DATE CODE.

3. THE PRODUCT IS RoHS COMPLIANCE.

c UL us UL RECOGNIZED - FILE #E196366 AND E169987.

4. THE PRODUCT IS PATENTED. "PATENTED" MARKING IS ON THE TOP SURFACE. THE PATENT NUMBER ARE U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

5. THE FINISHED GOODS IS WITHOUT SMD LED. THE SMD LED IS PROVIDED BY CUSTOMER HERSELF. AND THE SMD LED IS MOUNTED ON CUSTOMER PCB.

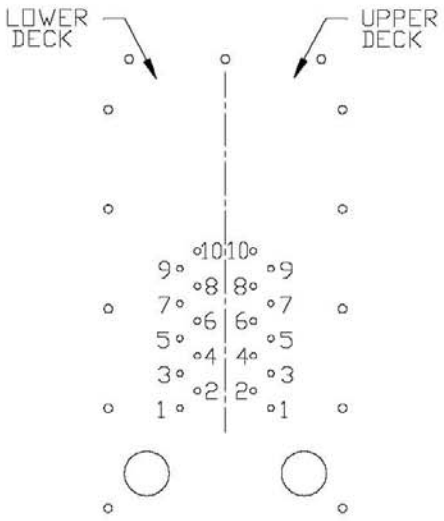
6. RECOMMNENDED MINIMUM CUSTOMER PCB THICKNESS IS 0.080 INCH.

				REV. : PC	PAGE : 3
ORIGINATED BY ANTON LIAO DATE 2019-08-13	TITLE 2X1 gigabit MagJack® PRESS FIT 08G0-281D-GUA PATENTED	PART NO. / DRAWING NO. 08G0-281DGUA	STANDARD DIM. TOL. IN INCH .X / .XX / .XXX ±0.010	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY LI QUANKUN DATE 2019-08-13		FILE NAME 08G0-281DGUA_PC.DWG			

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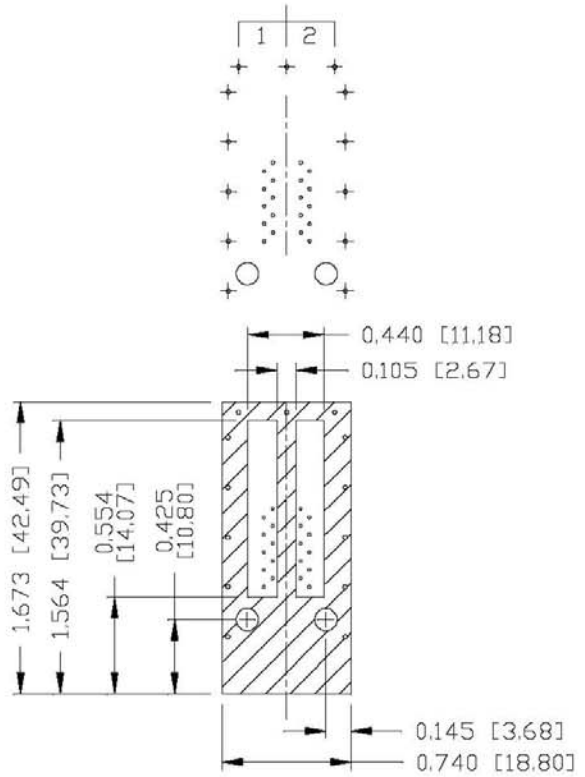
RoHS



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	GND
9	TRDCT1/2/3/4
8	TRD4-
7	TRD4+
6	TRD3-
5	TRD3+
4	TRD2-
3	TRD2+
2	TRD1-
1	TRD1+

PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



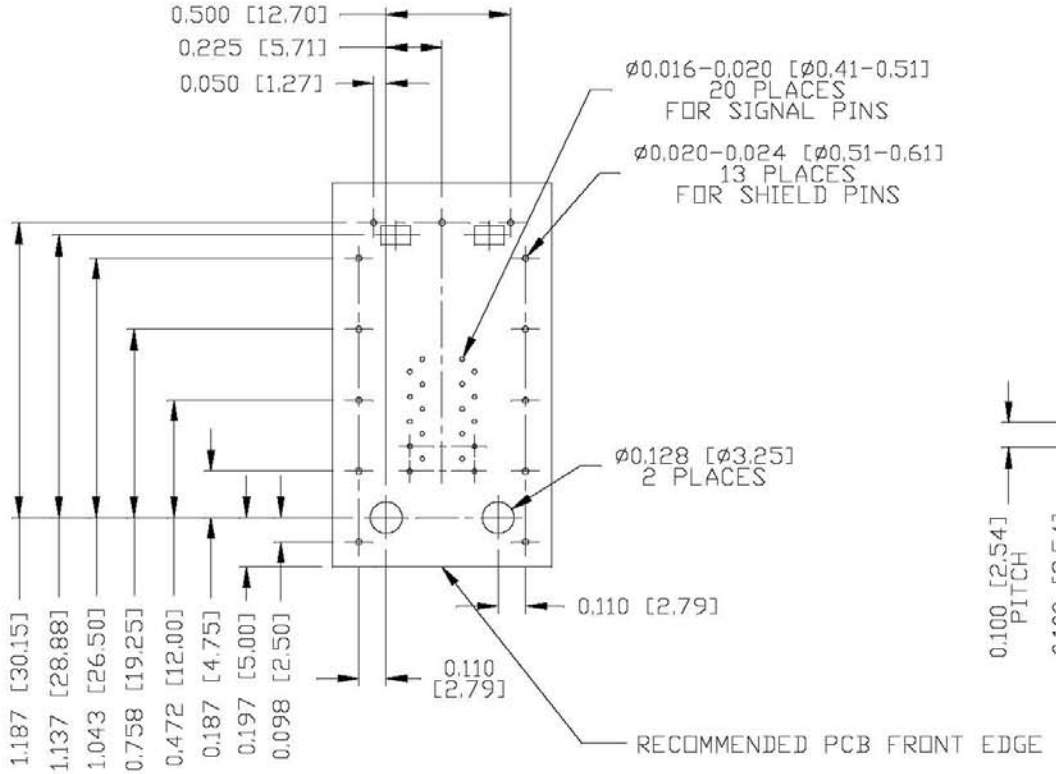
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY ANTON LIAO DATE 2019-08-13	TITLE 2X1 gigabit MagJack® PRESS FIT 08G0-281D-GUA PATENTED	PART NO. / DRAWING NO. 08G0-281DGUA	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	REV. : PC / PAGE : 4
DRAWN BY LI QUANKUN DATE 2019-08-13		FILE NAME 08G0-281DGUA_PC.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group

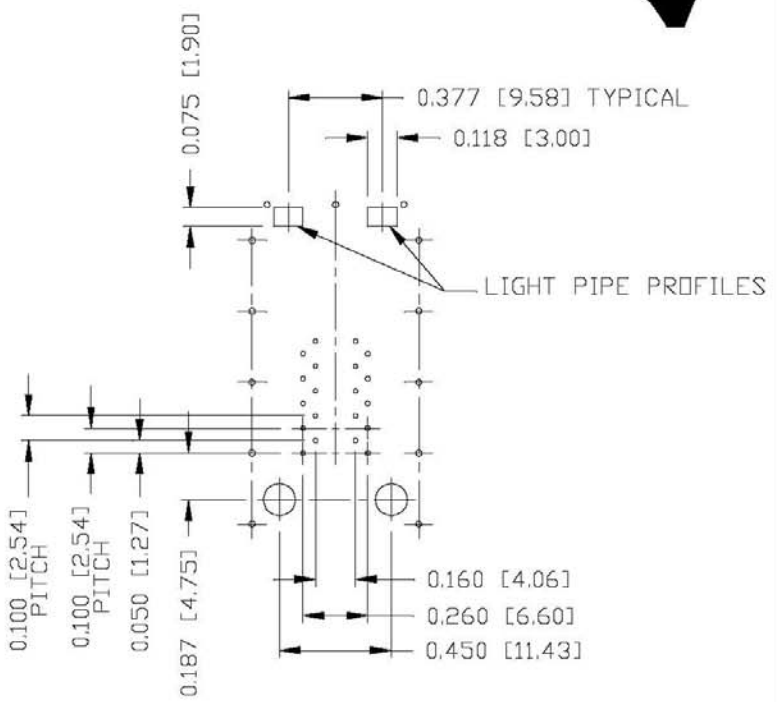
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SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

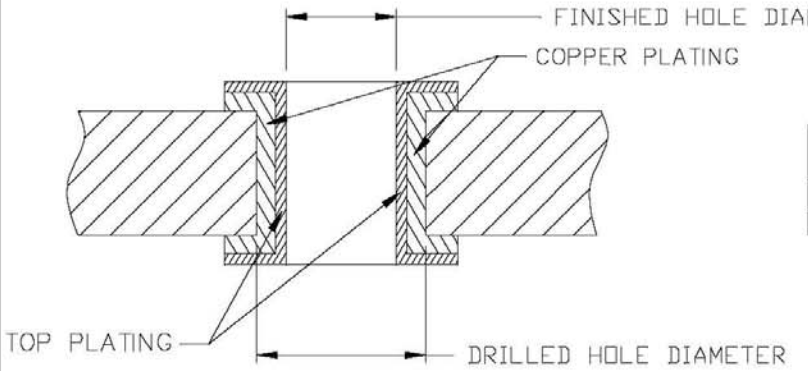


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ORIGINATED BY ANTON LIAO DATE 2019-08-13	TITLE 2X1 gigabit MagJack® PRESS FIT 08G0-281D-GUA PATENTED	PART NO. / DRAWING NO. 08G0-281DGUA	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	bel MAGNETIC SOLUTIONS a bel group
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PLATED-THROUGH-HOLE CROSS-SECTION

PLATED-THROUGH-HOLE	DRILLED HOLE DIAMETER	FINISHED HOLE DIAMETER
FOR SIGNAL PINS	0.022 [0.57]	0.016-0.020 [0.41-0.51]
FOR SHIELD PINS	0.026 [0.66]	0.020-0.024 [0.51-0.61]

PLATING	THICKNESS IN MICRO-INCHES [MICRONS]
COPPER	1000-2000 [25-50]
TOP PLATING - USE ONE OPTION LISTED BELOW:	
HOT AIR SOLDER LEVELING (HASL) TIN-LEAD (Sn-Pb)	160-400 [4-10]
IMMERSION TIN (Sn)	20-40 [0.5-1.0]
ORGANIC SOLDERABILITY PRESERVITAVE (OSP)	10-20 [0.2-0.5]
IMMERSION GOLD (Au) OVER NICKEL (NI) (ENIG)	5-20 [0.1-0.5] (Au) OVER 50-100 [1.2-2.5] (NI)
TIN-LEAD (Sn-Pb)	400-1000 [10-25]
IMMERSION SILVER (Ag)	5-8 [0.10-0.15]

RECOMMENDED PLATED-THROUGH-HOLE
CONSTRUCTION DETAILS
FOR PRESS-FIT PINS

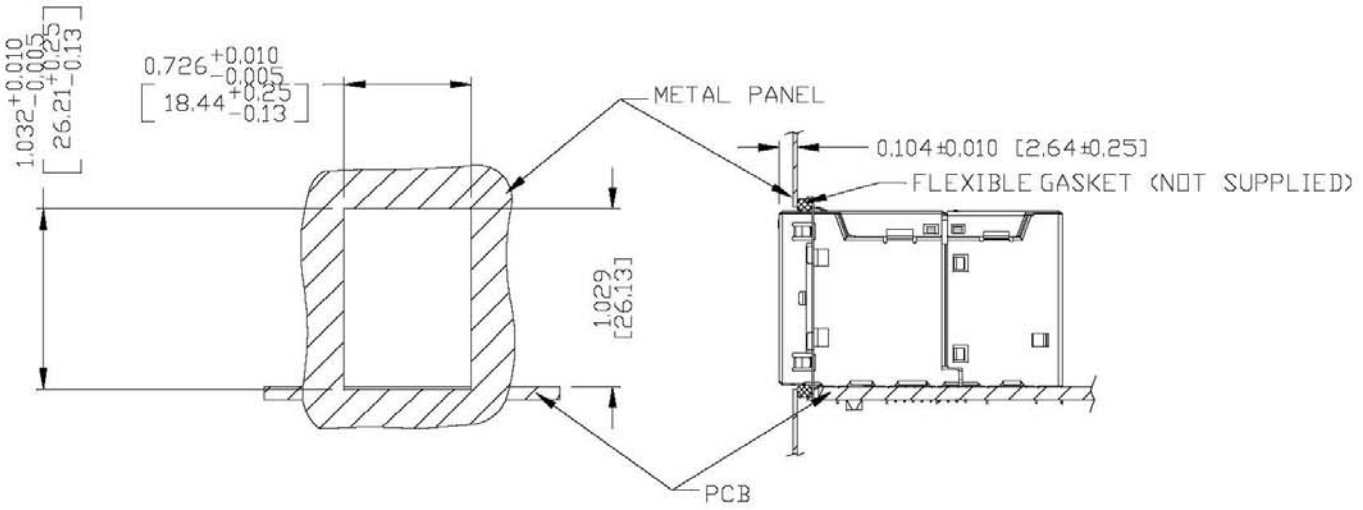
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DRAWN BY LI QUANKUN DATE 2019-08-13		FILE NAME 08G0-281DGUA_PC.DWG	.X / .XX / .XXX ±0.005	UNIT : INCH [mm] SCALE : N/A SIZE : A4	bel MAGNETIC SOLUTIONS a bel group

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SUGGESTED PANEL OPENING



NOTES:

1. 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.
2. RECOMMENDED COMPRESSION OF THE FLEXIBLE GASKET MATERIAL OF 25%.
3. RECOMMENDED FLEXIBLE GASKET THICKNESS BEFORE COMPRESSION IS 0.103 INCH.
4. THE FLEXIBLE GASKET CAN BE ORDERD SEPARATELY VIA PART NUMBER 0080M1700-08.

PACKING INFORMATION

PACKING TRAY : 0200M9999-L7 (TOP)
0200M9999-L6 (BOTTOM)

PACKING QUANTITY : 21 PCS FINISHED GOODS PER TRAY.
7 TRAYS (147 PCS FINISHED GOODS) PER CARTON BOX.

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

				REV. : PC	PAGE : 7
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