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RoHS



PRELIMINARY

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) @ 100 OHMS

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

CM TO CM REJ

1MHz - 500MHz	-25 dB MIN
---------------	------------

CM TO DM REJ

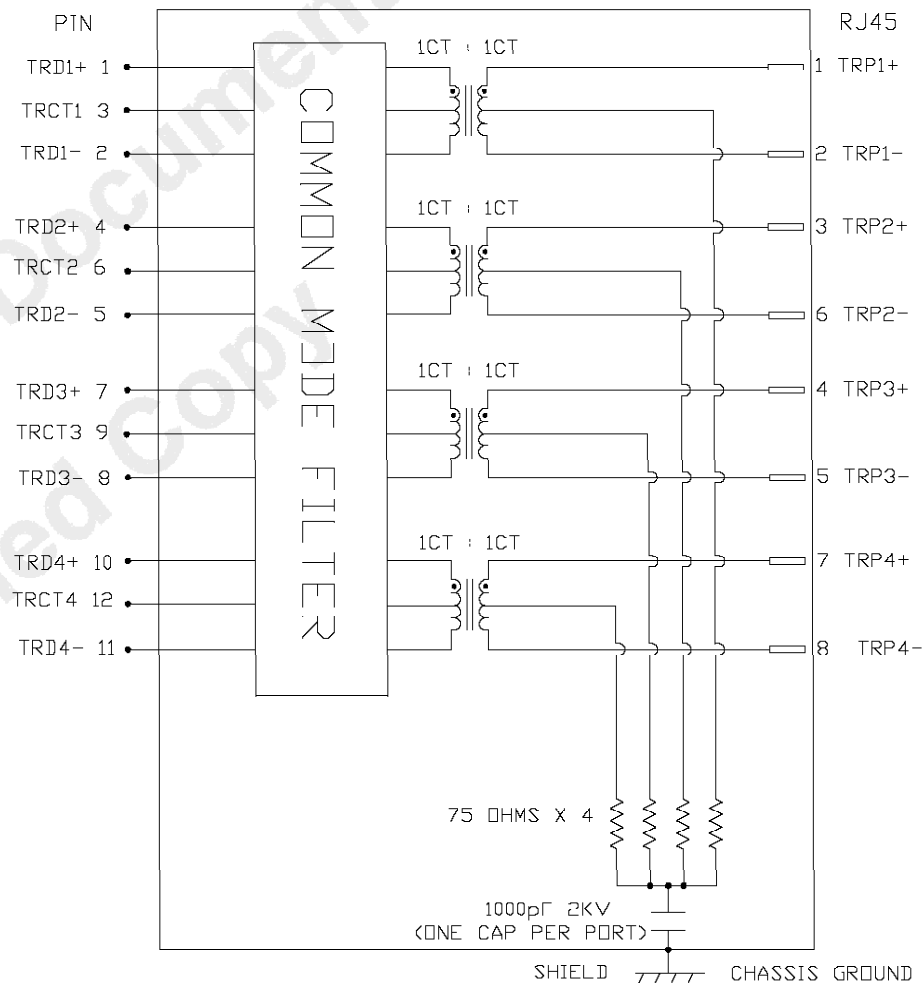
1MHz - 500MHz	-30 dB MIN
---------------	------------

HIPOT (Isolation Voltage): 2250VDC

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

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

SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2021-10-29

DRAWN BY
TANG YUAN
DATE 2021-10-29

TITLE
2X2 10 Gigabit MagJack®
PRESS F11
PATENTED

PART NO. / DRAWING NO.
G53-48NV-010B

FILE NAME
G53-48NV-010B_2.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

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

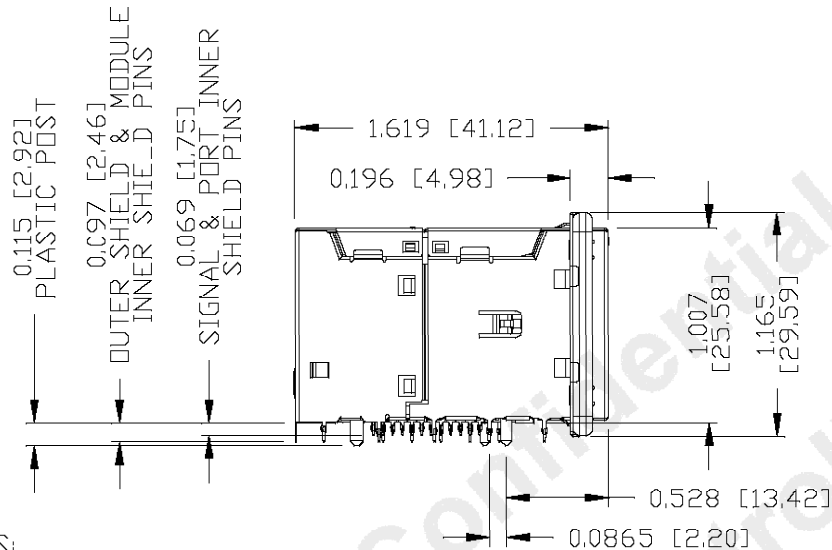
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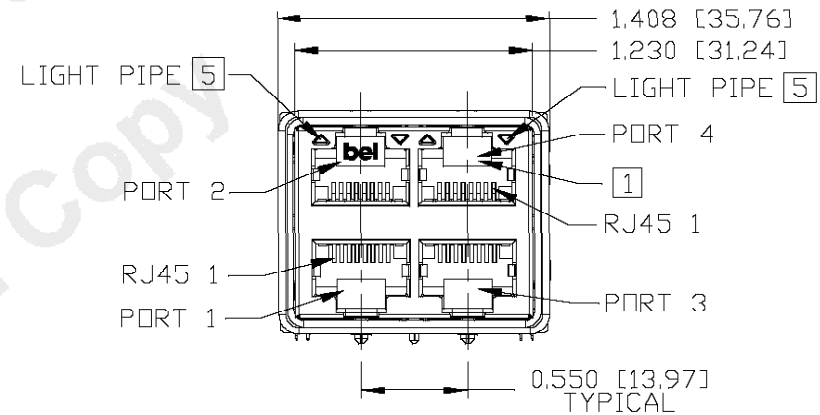
RoHS



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT, 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 COMPLIANT.



UL RECOGNIZED - FILE #E169987.

- [4] THE PRODUCT IS PATENTED. "PATENTED" MARKING IS ON THE TOP SURFACE, THE PATENT NUMBER ARE U.S. PAT. 7,429,195 & U.S. PAT. 6,840,817 AND U.S. PAT. 7,924,130 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. RECOMMENDED MINIMUM CUSTOMER PCB THICKNESS IS 0.080 INCH.

ORIGINATED BY ANTON LIAO DATE 2021-10-29		TITLE 2X2 10 Gigabit MagJack® PRESS FIT PATENTED	PART NO. / DRAWING NO. G53-48NV-010B		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		
DRAWN BY LI QUANKUN DATE 2021-10-29			FILE NAME G53-48NV-010B_2.DWG		.X		UNIT : INCH [mm]		
					.XX		SCALE : N/A		
					.XXX		±0.010		
							 SIZE : A4		

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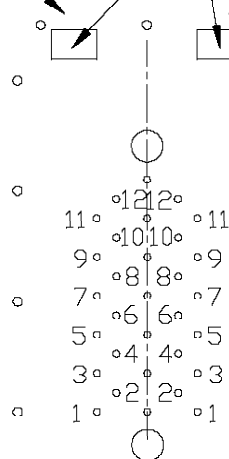
PRELIMINARY

PORT ASSIGNMENT
(COMPONENT SIDE VIEW)

RoHS

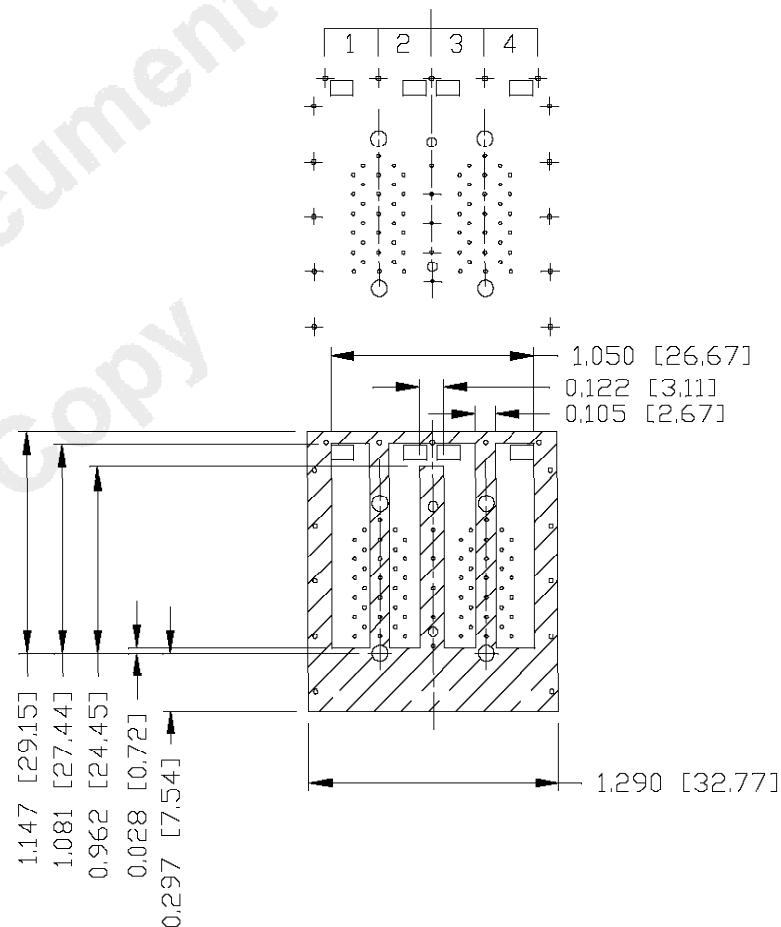


LOWER DECK
UPPER DECK
LIGHT PIPE PROFILES



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	TRD4-		
9	TRCT3		
8	TRD3		
7	TRD3+		
6	TRCT2		
5	TRD2-		
4	TRD2+		
3	TRCT1		
2	TRD1-	12	TRCT4
1	TRD1+	11	TRD4-



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

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G53-48NV-010B

FILE NAME
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STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX
±0.004

[] METRIC DIM.
AS REF.

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

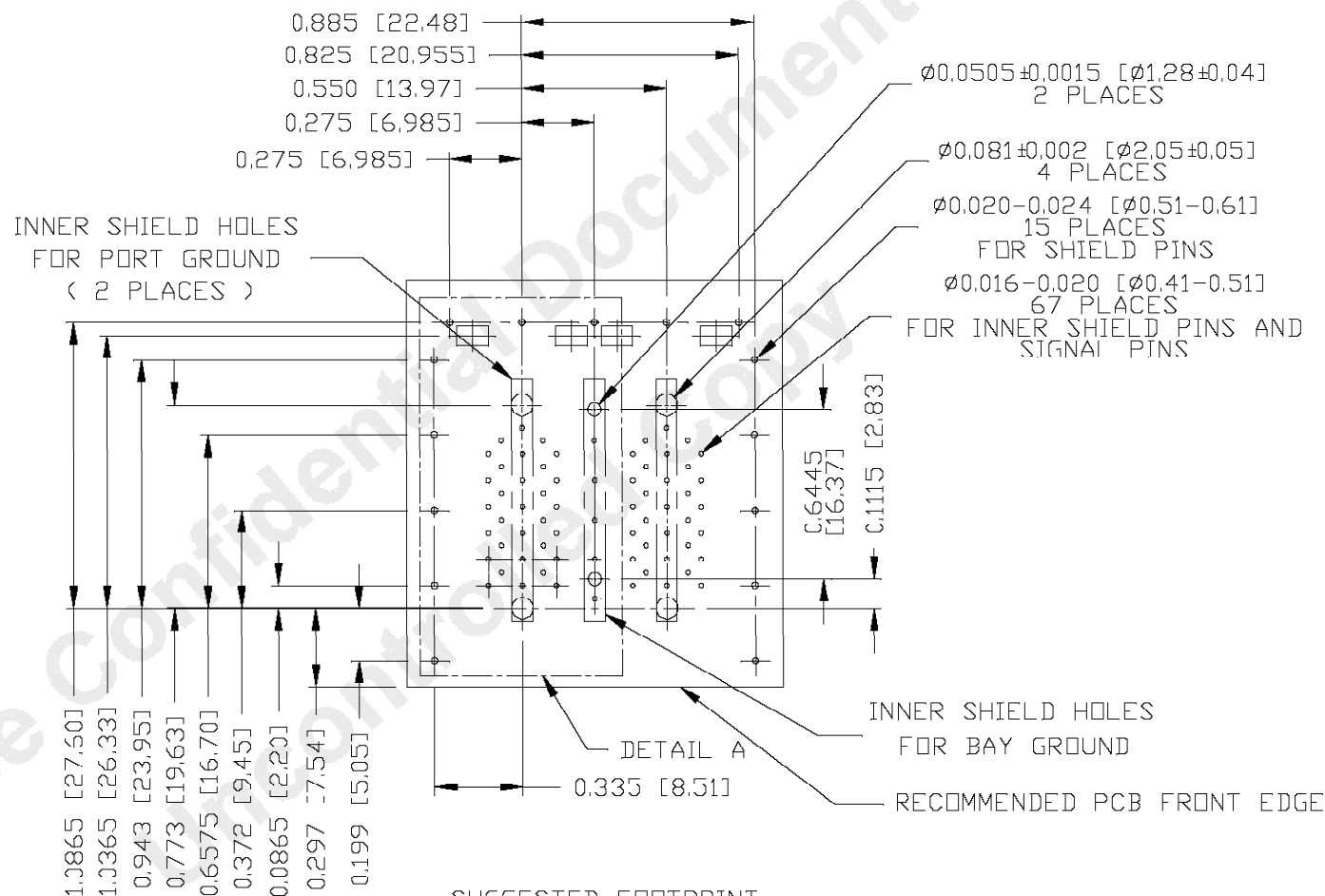
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PRELIMINARY

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SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

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TOL. IN INCH

.X
.XX
.XXX

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AS REF.

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

REV. : 2

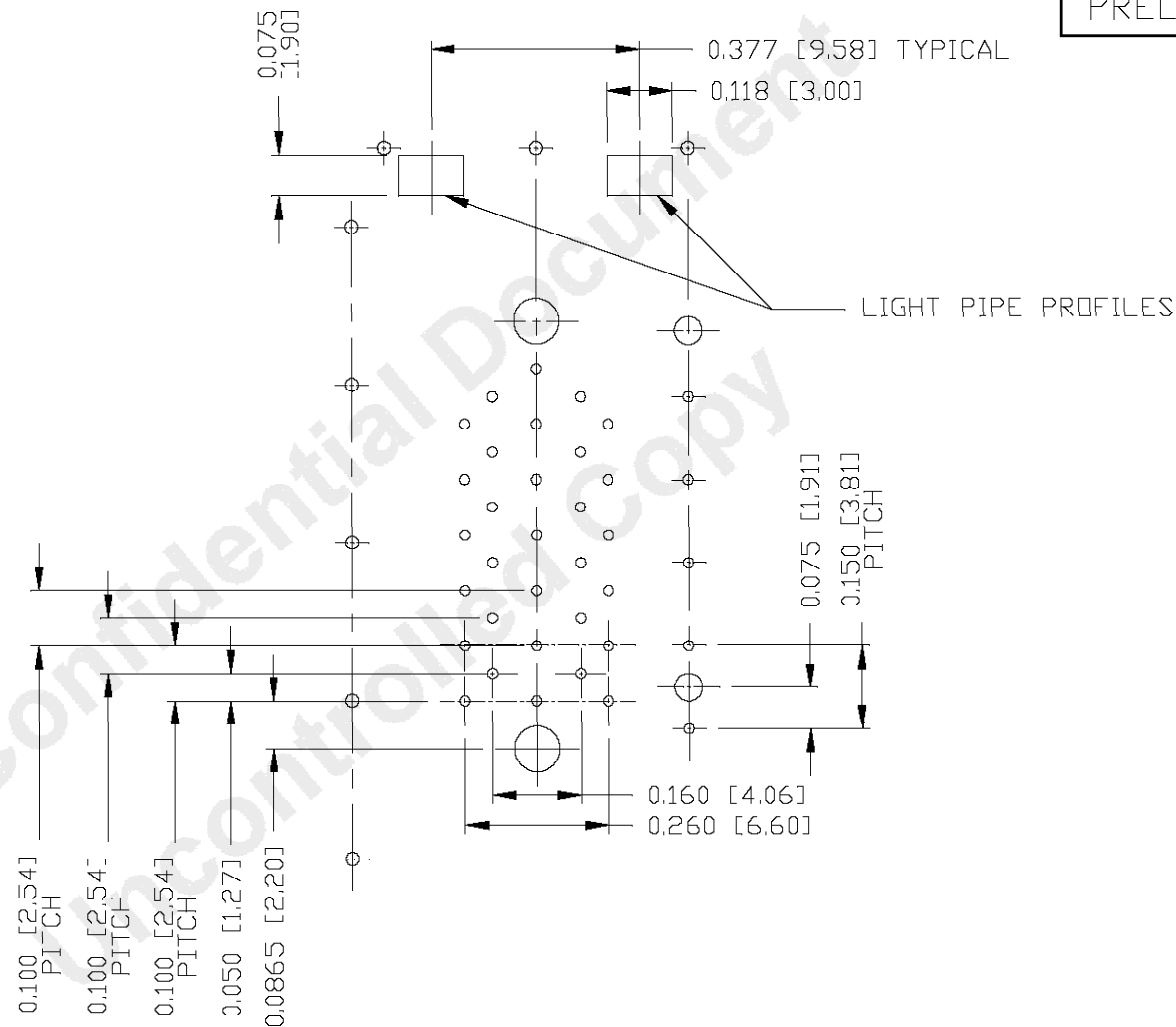
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PRELIMINARY

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DETAIL A

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FILE NAME
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STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX ±0.004

[] METRIC DIM.
AS REF.

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

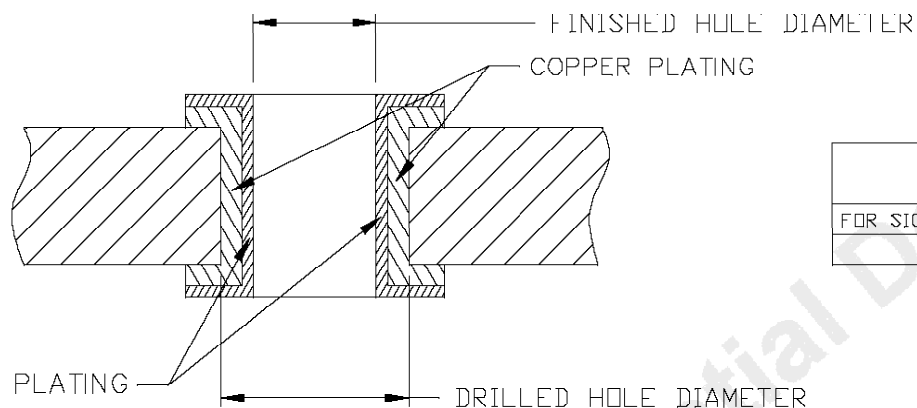
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PLATED-THROUGH-HOLE	DRILLED HOLE DIAMETER	FINISHED HOLE DIAMETER
FOR SIGNAL PINS AND INNER SHIELD PINS	0,022 [0,57]	0,016-0,020 [0,41-0,51]
FOR SHIELD PINS	0,026 [0,66]	0,020-0,024 [0,51-0,61]

PLATED-THROUGH-HOLE CROSS-SECTION

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 PRESERVATIVE (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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FILE NAME
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STANDARD DIM.
TOL. IN INCH

.X	
.XX	
.XXX	±0.005

[] METRIC DIM.
AS REF.

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

REV. : 2 PAGE : 7

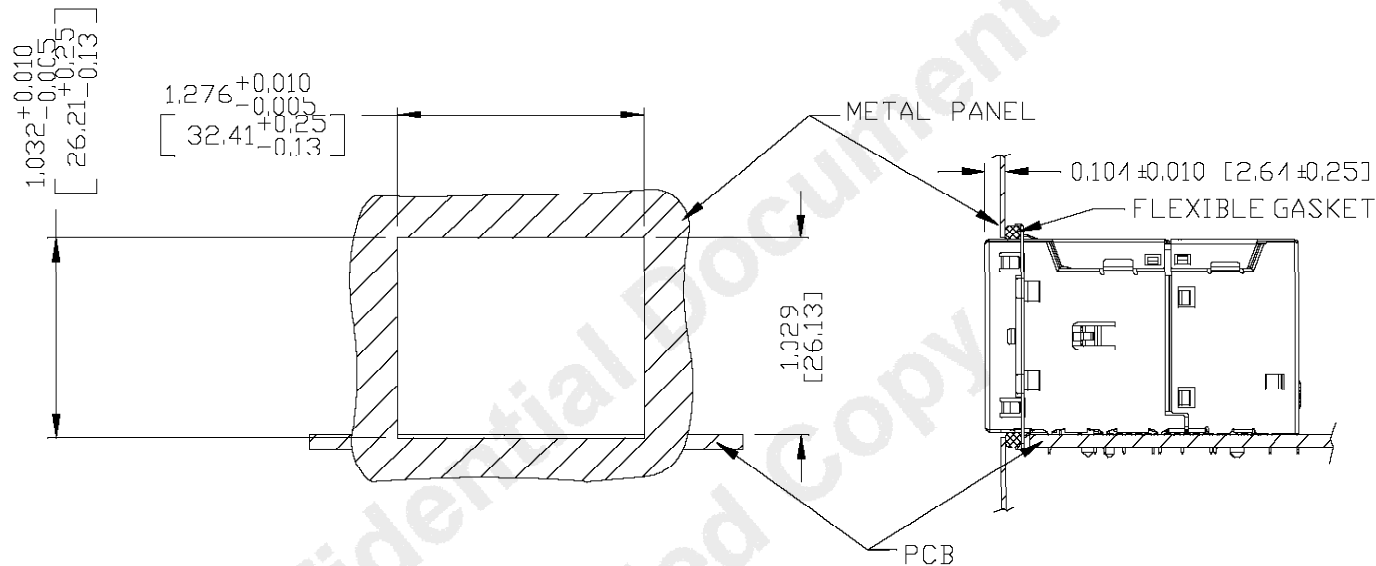


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SUGGESTED PANEL OPENING

PRELIMINARY

RoHS



NOTE:

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 0080M1700-06.

PACKING INFORMATION

PACKING TRAY : 0200M9999-L9 (TOP)

0200M9999-Q8 (BOTTOM)

PACKING QUANTITY : 15 PCS FINISHED GOODS PER TRAY.

7 TRAYS (105 PCS FINISHED GOODS) PER CARTON BOX.

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

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LI QUANKUN
DATE 2021-10-29

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PRESS FIT
PATFNTFD

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.X	UNIT : INCH [mm]
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.XXX ±0.005	SIZE : A4

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