RoHS ✓

LED 2 & 4 POLARITY			LED 1 & 3 POLARITY		
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	COLOR
−	+	YELLOW	−	+	YELLOW
+	−	GREEN	+	−	GREEN

SCHEMATIC

RJ45

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   350 μH 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) @ 100OHMS ±15%
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

OPERATING TEMPERATURE: −40° TO +85°C

HIPOT (Isolation Voltage):   2250 VDC
TEST POINTS: RJ1−8 + P11−12 ISOLATED FROM P1−10
AND RJ1−8 + P11−12 ISOLATED FROM SHIELD
100% OF PRODUCTION TESTED TO COMPLY WITH
IEEE 802.3 ISOLATION REQUIREMENTS.
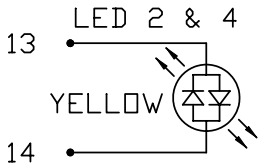
BALANCED DC LINE CURRENT   720mA MAX. @ 57 VDC CONTINUOUS
1.2A MAX. @ 57 VDC FOR 200 MILLSECONDS
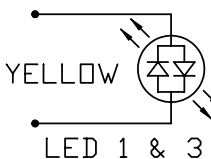
LED 1, 2, 3 & 4
VF (FORWARD VOLTAGE)   IF=20mA   GREEN   2.2V TYP.
YELLOW   2.1V TYP.
λD (DOMINANT WAVELENGTH)   IF=20mA   GREEN   565nm TYP.
YELLOW   590nm TYP.
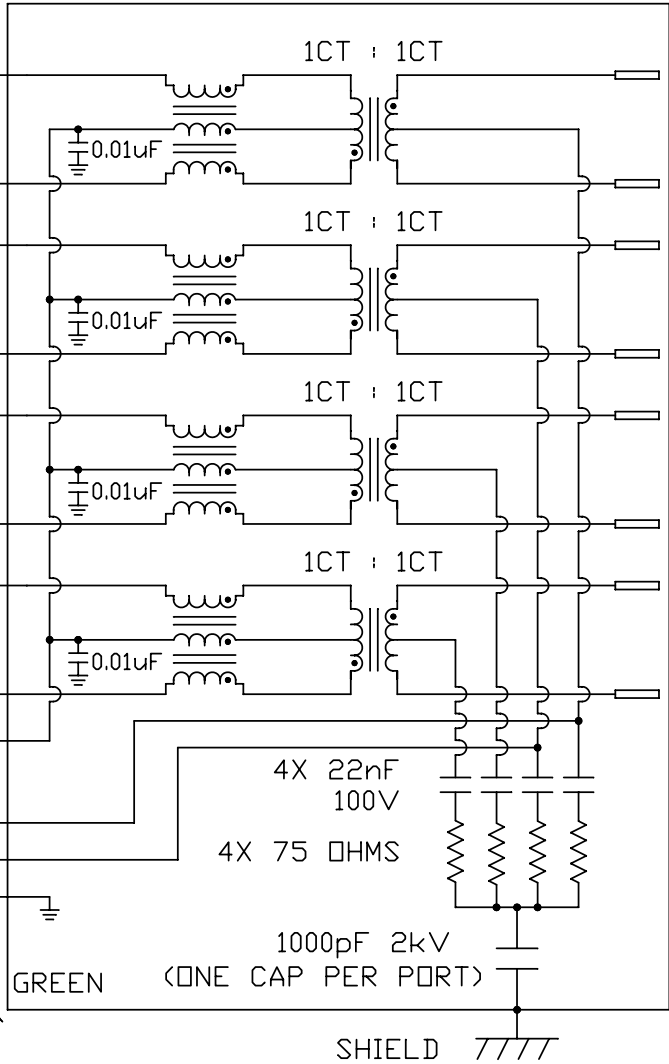
LED 2 & 4
13
YELLOW ⎓⎓ GREEN
14

TRD1−   1
TRD1+   2
TRD2−   3
TRD2+   4
TRD3−   5
TRD3+   6
TRD4−   7
TRD4+   8
TRDCT1/2/3/4   9
VC12   11
VC36   12
GND   10
15
YELLOW ⎓⎓ GREEN
16
LED 1 & 3

1CT : 1CT
0.01uF
1CT : 1CT
0.01uF
1CT : 1CT
0.01uF
1CT : 1CT
0.01uF

1   TRP1+
2   TRP1−
3   TRP2+
6   TRP2−
4   TRP3+
5   TRP3−
7   TRP4+
8   TRP4−

4X 22nF 100V
4X 75 OHMS
1000pF 2kV (ONE CAP PER PORT)
SHIELD ⏚

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	bel
CHOW WANCHUNG 2012-08-15		2X2 gigabit MagJack® WITH UPPER AND LOWER LED PoE(EXTENDED TEMPERATURE) PATENTED	0895-2S2R-FM		UNIT : INCH [mm] REV. : B	COMPONENTS FOR A CONNECTED PLANET
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A SIZE : A4	
TAN QIGUANG	2012-08-15		0895-2S2R-FM_B.DWG	.XX / .XXX	⊕--◁ PAGE : 2	

RoHS ✓

1.510 [38.35]

0.050±0.020 [1.27±0.510]

1.004 [25.50]

0.150 [3.81] 4 GROUND LEADS OF REAR SHIELD

0.120 [3.05] LED & SIGNAL LEADS

0.120 [3.05]

0.025 [0.64]

0.163 [4.14] 3 GROUND LEADS OF FRONT SHIELD

0.185 [4.70]

0.423 [10.74]

1.226 [31.14]

PORT 2

PORT 4

RJ45 1

LED 2 BI-COLOR YELLOW/GREEN

LED 1 BI-COLOR YELLOW/GREEN

RJ45 1

LED 4 BI-COLOR YELLOW/GREEN

LED 3 BI-COLOR YELLOW/GREEN

PORT 1

PORT3

0.055±0.020 [1.40±0.51]

0.550 [13.97] TYPICAL

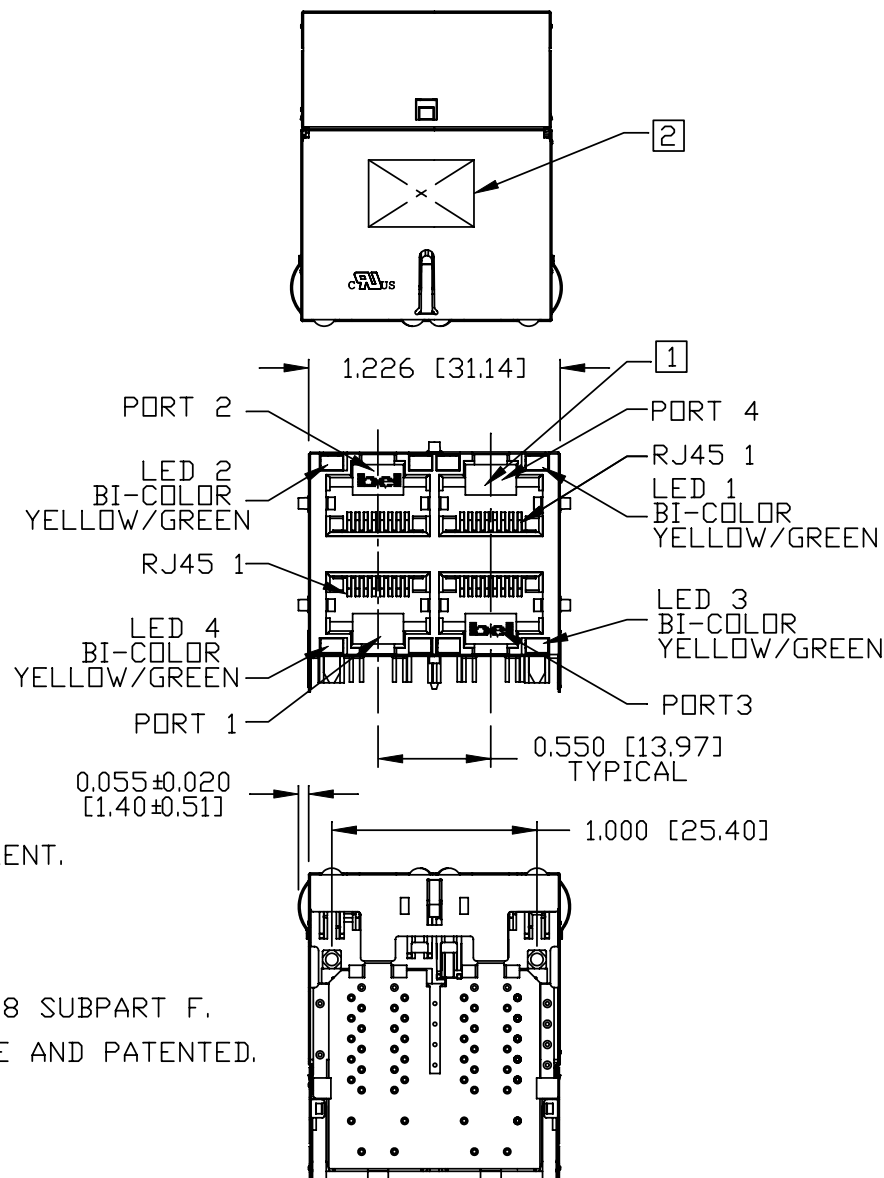1.000 [25.40]
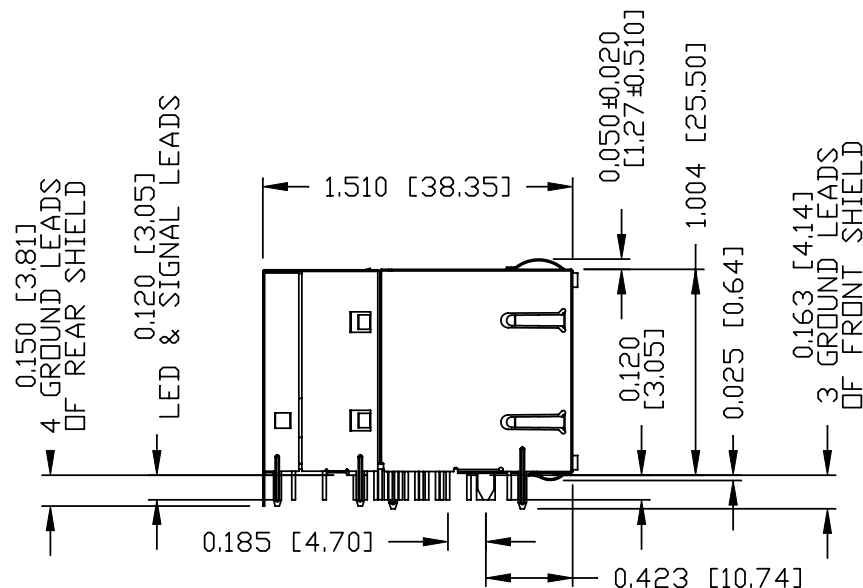
NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT
                   FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
                   (ALL GROUND LEADS ARE SOLDER DIPPED)

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

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

3. THE PRODUCT IS RoHS COMPLIANT.

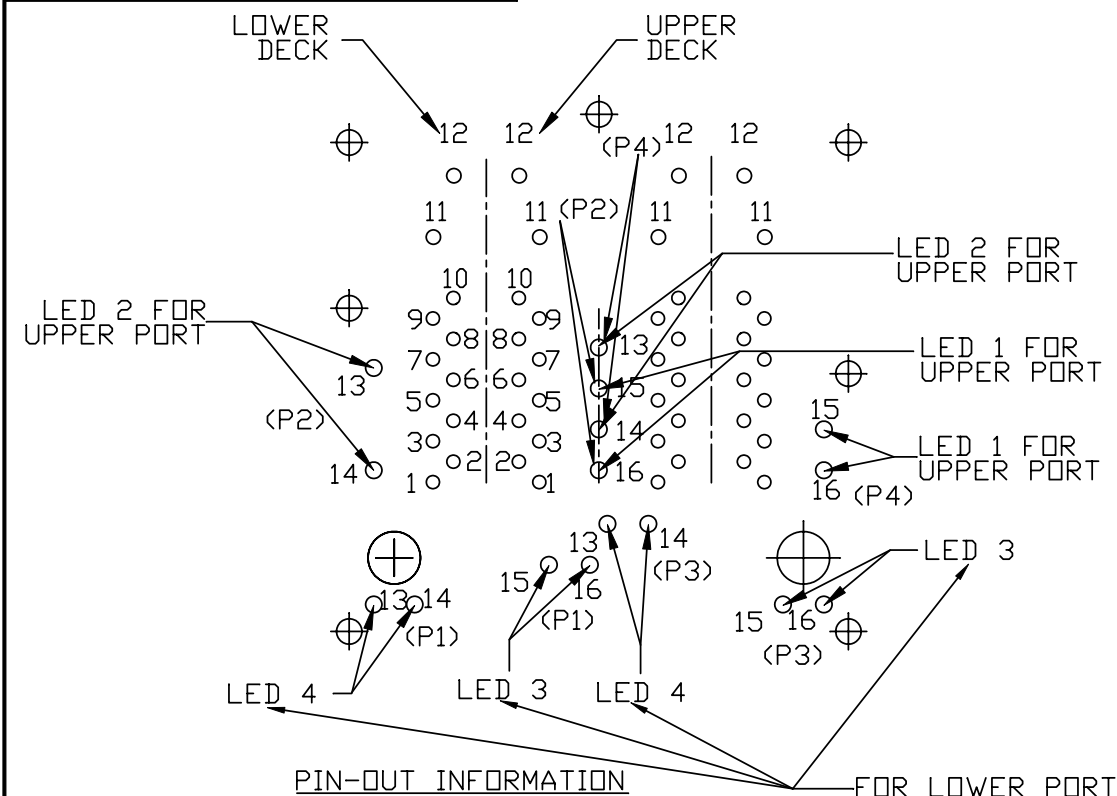c UL usUL RECOGNIZED - FILE #E196366 AND E169987.

4. LED POLARITY IS REFER TO GENERAL REQUEST OF 'C' LED

5. THE PRODUCT IS PATENT PRODUCT. THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
ANTON LIAO	2012-08-15	2X2 gigabit MagJack® WITH UPPER AND LOWER LED PoEp(EXTENDED TEMPERATURE) PATENTED	0895-2S2R-FM		UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
HE ZHEN	2012-08-15		0895-2S2R-FM_B.DWG	.XX / .XXX ±0.010	⊕-◁	PAGE : 3

bel COMPONENTS FOR A CONNECTED PLANET

RoHS ✓

LOWER DECK

UPPER DECK

PORT ASSIGNMENT
(COMPONENT SIDE VIEW)

LED 2 FOR UPPER PORT

LED 1 FOR UPPER PORT

LED 1 FOR UPPER PORT

LED 2 FOR UPPER PORT

LED 3

LED 4

LED 3   LED 4

FOR LOWER PORT

1.551 [39.40]
0.554 [14.07]
0.425 [10.80]

0.990 [25.15]

0.145 [3.68]

1.290 [32.77]
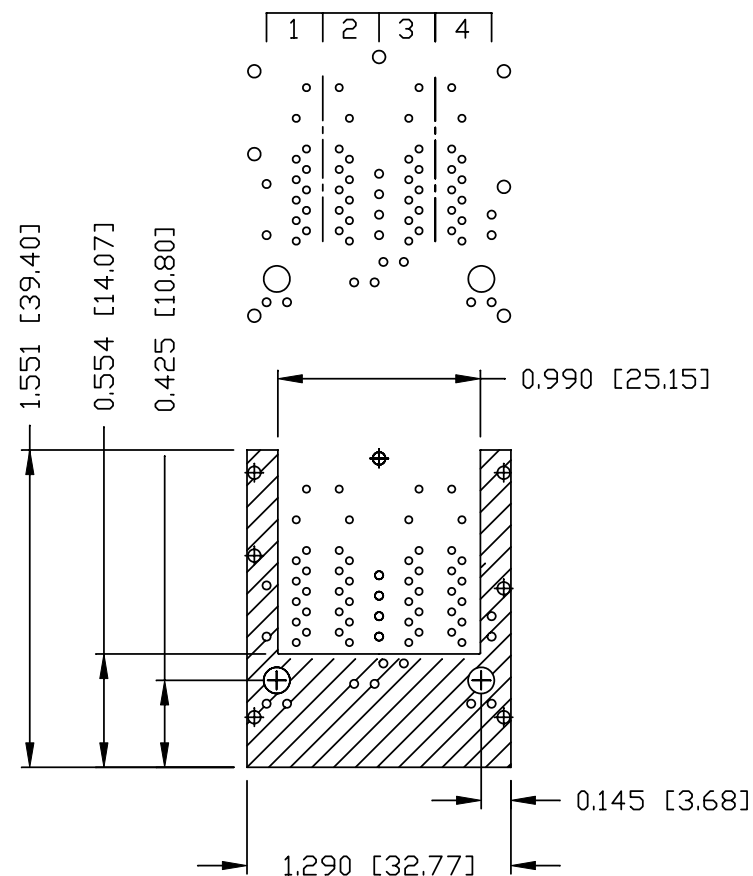
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	GND		
9	TRDCT1/2/3/4		
8	TRD 4+		
7	TRD 4-		
6	TRD 3+	16	YEL(+) GRN(-)
5	TRD 3-	15	YEL(-) GRN(+)
4	TRD 2+	14	YEL(+) GRN(-)
3	TRD 2-	13	YEL(-) GRN(+)
2	TRD 1+	12	VC36
1	TRD 1-	11	VC12

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
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DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
HE ZHEN	2012-08-15		0895-2S2R-FM_B.DWG	.XX / .XXX ±0.004		PAGE : 4

bel COMPONENTS FOR A CONNECTED PLANET

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RoHS ✓

1.110 [28.19]

0.905 [22.99]

0.500 [12.70]

0.355 [9.02]

0.050 [1.27]

0.160 [4.06]

$\varnothing 0.035^{+0.005}_{0.000}$ [$\varnothing 0.89^{+0.13}_{0.00}$]
48 PLACES

$\varnothing 0.062$ [$\varnothing 1.57$]
7 PLACES

SEE DETAIL A

0.785 [19.94]

0.250 [6.35]

0.100 [2.54] PITCH

0.150 [3.81]

0.290 [7.37]

1.085 [27.56]

1.015 [25.78]

0.610 [15.49]

0.180 [457]

0.214 [5.44]

0.100 [2.54]

0.450 [11.43]

0.100 [2.54] PITCH

0.017 [0.43]

0.083 [2.11]

0.214 [5.44]

0.214 [5.44]

0.185 [4.70]

0.050 [1.27]

0.114 [2.90]

0.110 [2.79]

0.150 [3.81]

0.030 [R0.76]

$\varnothing 0.128$ [$\varnothing 3.25$]
2 PLACES

0.050 [1.27]

0.110 [2.79]

0.190 [4.83]

0.100 [2.54]

0.100 [2.54]

0.143 [3.63]

0.378 [9.60]

0.050 [1.27]

0.100 [2.54]

$\varnothing 0.040^{+0.005}_{0.000}$ [$\varnothing 1.02^{+0.13}_{0.00}$]
16 PLACES (LED HOLES)

1.000 [25.40]

SUGGESTED FOOTPRINT

(COMPONENT SIDE VIEW)

Recommended PCB front edge
cutout. The bottom shield ground
tabs (front) should not be seated
on the top of the PCB.

DETAIL A

ORIGINATED BY	DATE	TITLE 2X2 gigabit MagJack® WITH UPPER AND LOWER LED PoEp(EXTENDED TEMPERATURE) PATENTED	PART NO. / DRAWING NO. 0895-2S2R-FM	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	bel
ANTON LIAO	2012-08-15				UNIT : INCH [mm] REV. : B	
DRAWN BY	DATE		FILE NAME 0895-2S2R-FM_B.DWG	.X / .XX / .XXX ±0.004	SCALE : N/A SIZE : A4	COMPONENTS FOR A CONNECTED PLANET
HE ZHEN	2012-08-15				PAGE : 5	

RoHS ✓

SUGGESTED PANEL OPENING

METAL PANEL

1.256 [31.90]

0.080 [2.03]

1.035 [26.29]

1.020 [25.91]

PCB
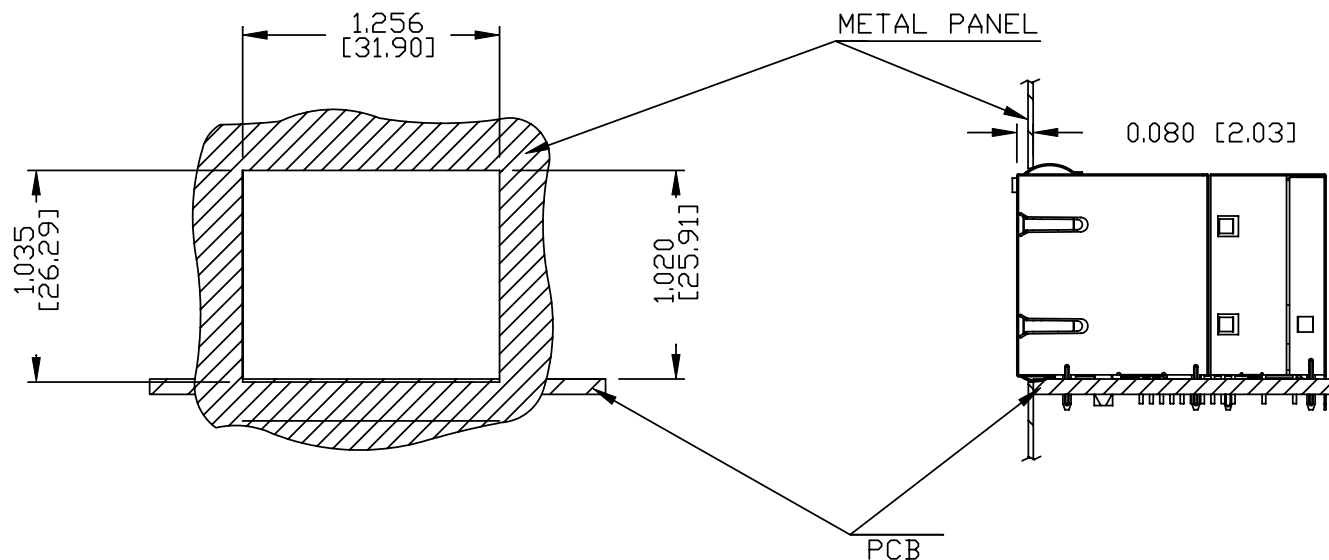
NOTE:

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.

PACKING INFORMATION

PACKING TRAY : 0200M9999-H0 (TOP)
               0200M9999-H1 (BOTTOM)

PACKING QUANTITY : 32 PCS FINISHED GOODS PER TRAY
                   7 TRAYS (224 PCS FINISHED GOODS) PER CARTON BOX

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

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFERENCE	
ANTON LIAO	2012-08-15	2X2 gigabit MagJack® WITH UPPER AND LOWER LED PoEp(EXTENDED TEMPERATURE) PATENTED	0895-2S2R-FM	TOL. IN INCH	UNIT : INCH [mm]	REV. : B
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HE ZHEN	2012-08-15		0895-2S2R-FM_B.DWG	.XX / .XXX ±0.004	⊕-◁	PAGE : 6

bel
COMPONENTS FOR A CONNECTED PLANET

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