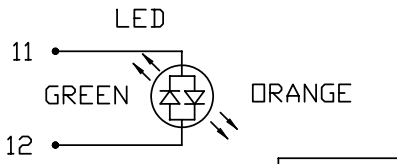
THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

LED POLARITY		
PIN 11	PIN 12	COLOR
−	+	GREEN
+	−	ORANGE

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

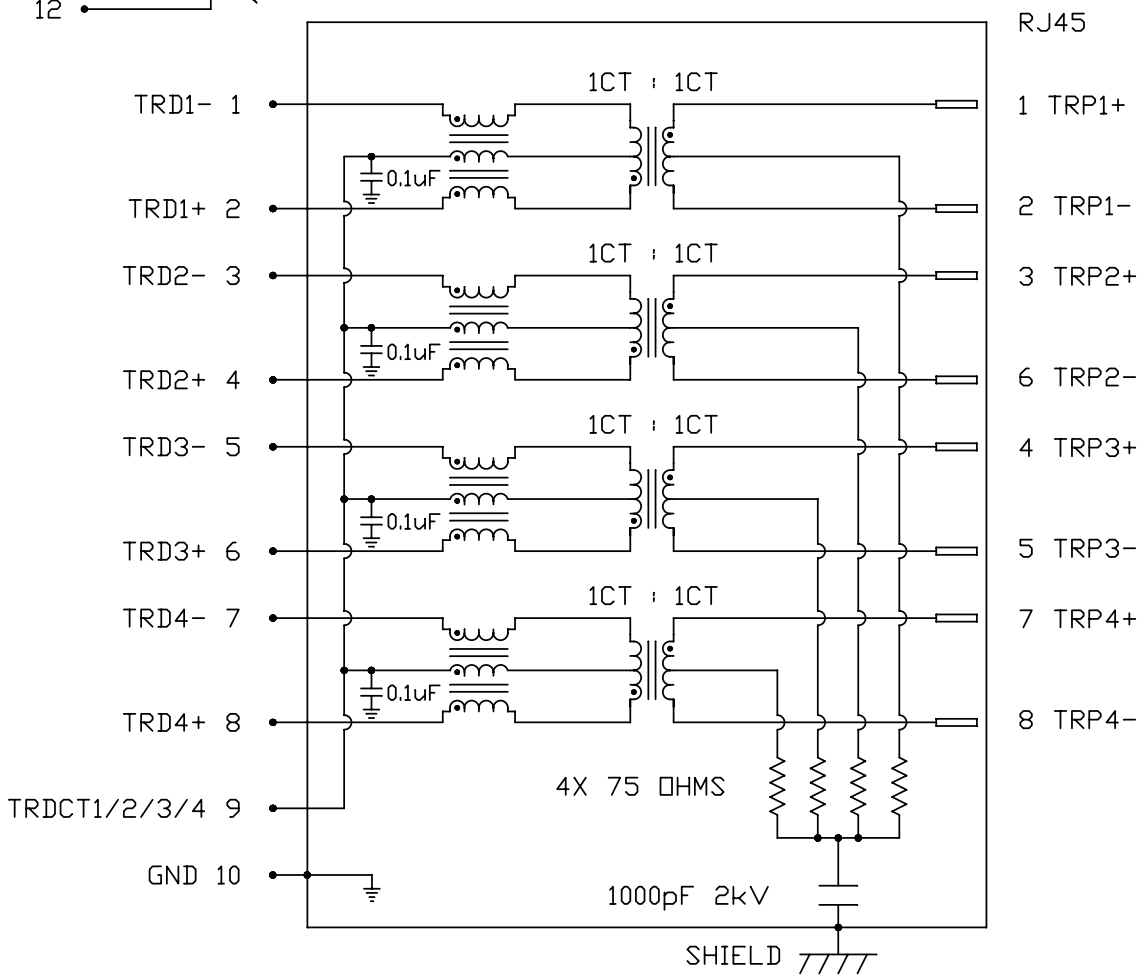
100kHz - 100MHz	-35 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms or 2250VDC
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

LED

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
		ORANGE	2.0V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	565nm TYP.
		ORANGE	610nm TYP.

SCHEMATIC



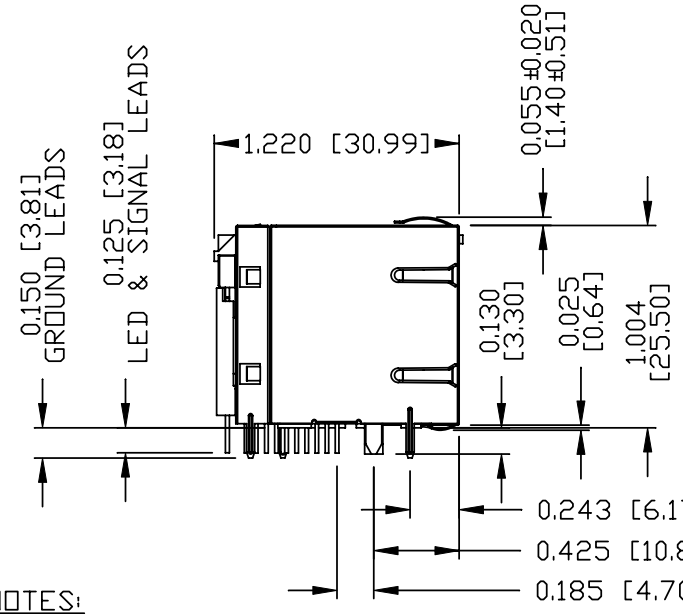
ORIGINATED BY: CHOW WANCHUNG	DATE: 2012-08-22	TITLE: 2X8 gigabit MagJack® (8 Cores, with LED) 0863-2X8R-54-F PATENTED	PART NO. / DRAWING NO.: 08632X8R54-F	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX	[ ] METRIC DIM. AS REFERENCE
DRAWN BY: TAN QIGUANG	DATE: 2012-08-22		FILE NAME: 08632X8R54-F_B.DWG		UNIT : INCH [mm] / REV. : B
					SCALE : N/A / SIZE : A4
					PAGE : 2

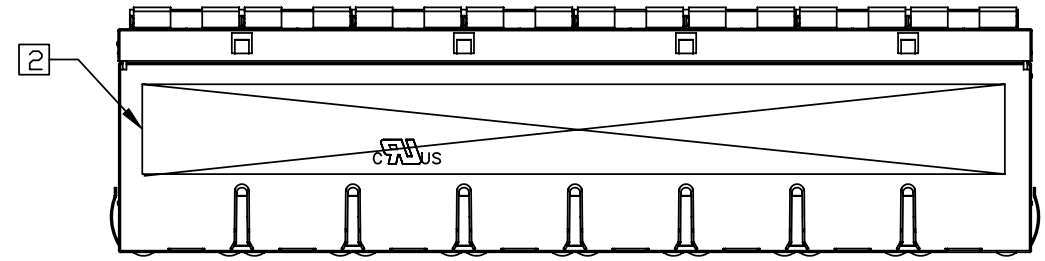
bel COMPONENTS FOR A CONNECTED PLANET

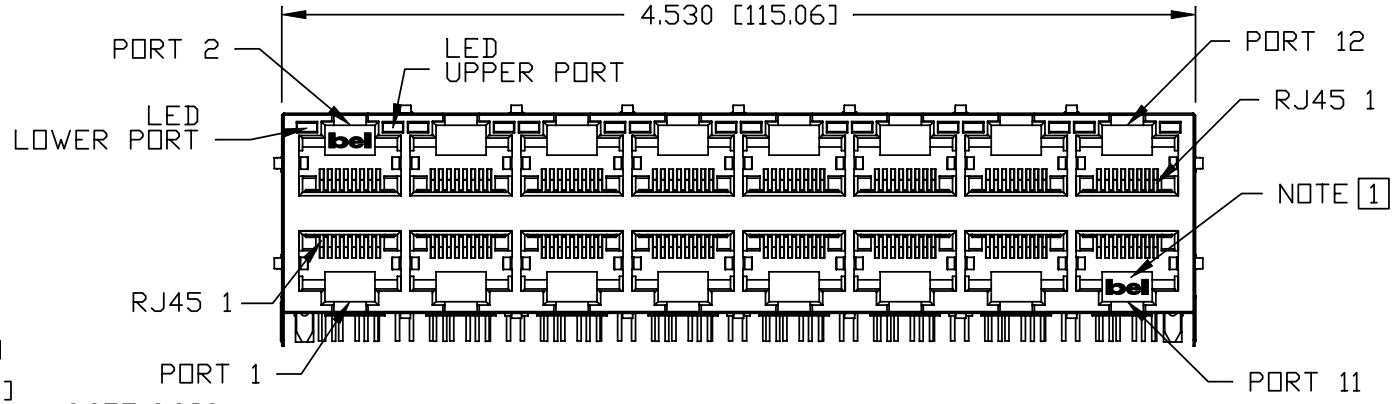
This document is electronically generated. This is a controlled copy if used internally

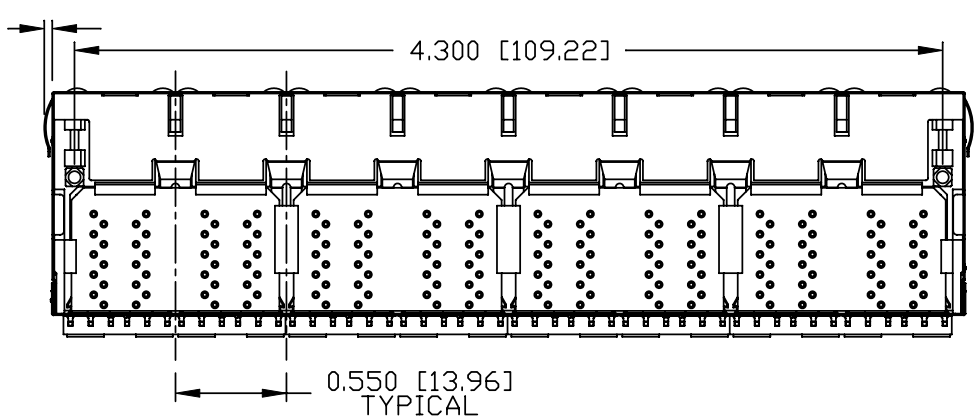
THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS









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, NAME, PART NUMBER, DATE CODE AND PATENTED.
3. THE PRODUCT IS RoHS COMPLIANT.
4. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

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

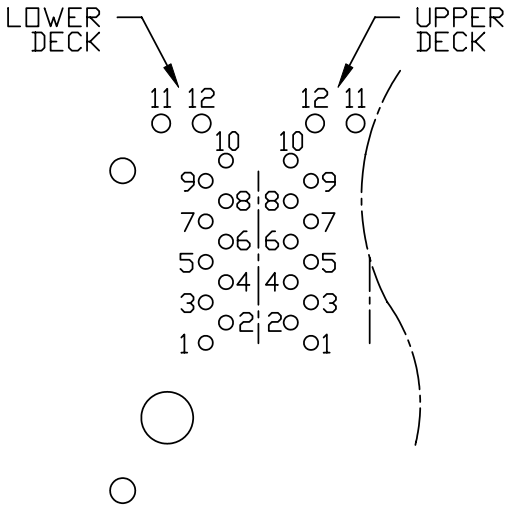
ORIGINATED BY: ANTON LIAO	DATE: 2012-08-22	TITLE: 2X8 gigabit MagJack® (8 Cores, with LED) 0863-2X8R-54-F PATENTED	PART NO. / DRAWING NO.: 08632X8R54-F	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX ±0.010	[ ] METRIC DIM. AS REFERENCE
DRAWN BY: HE ZHEN	DATE: 2012-08-22		FILE NAME: 08632X8R54-F_B.DWG		UNIT : INCH [mm] / REV. : B
					SCALE : N/A / SIZE : A4
					PAGE : 3

bel COMPONENTS FOR A CONNECTED PLANET

This document is electronically generated. This is a controlled copy if used internally

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

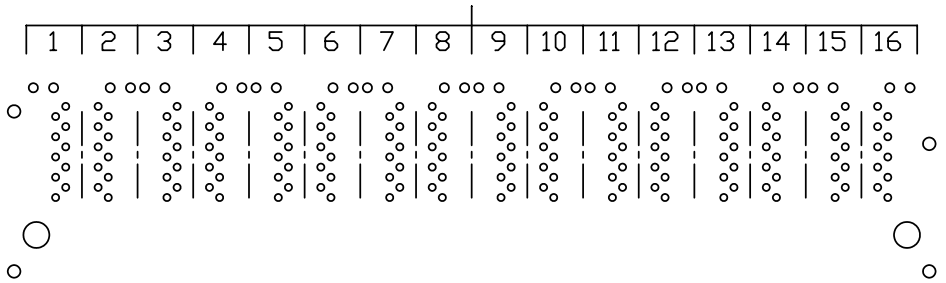
RoHS

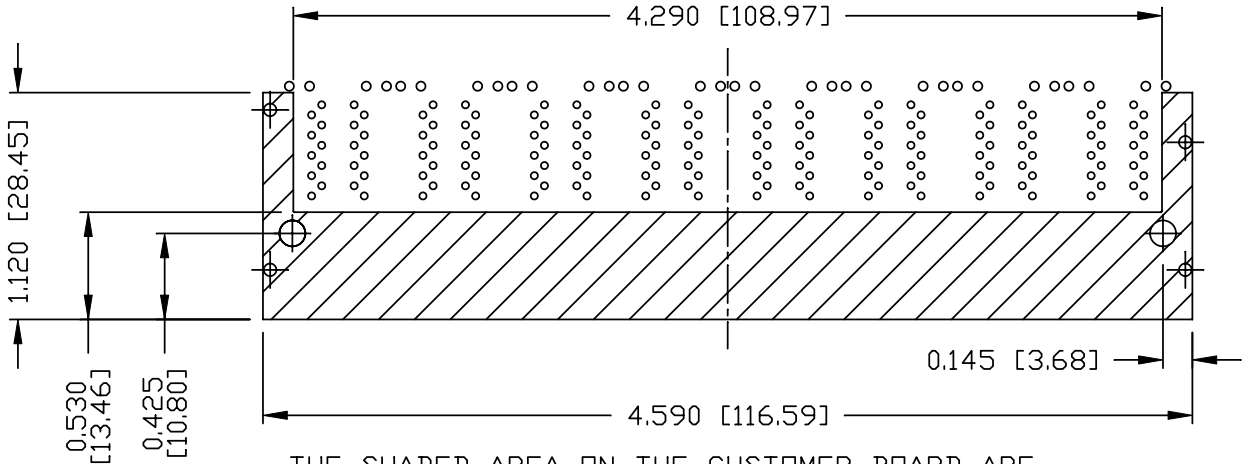


PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

12	GRN (+)/ORG (-)
11	GRN (-)/ORG (+)
10	GND
9	TRCT1/2/3/4
8	TRD 4+
7	TRD 4-
6	TRD 3+
5	TRD 3-
4	TRD 2+
3	TRD 2-
2	TRD 1+
1	TRD 1-

PORT ASSIGNMENT
(COMPONENT SIDE VIEW)





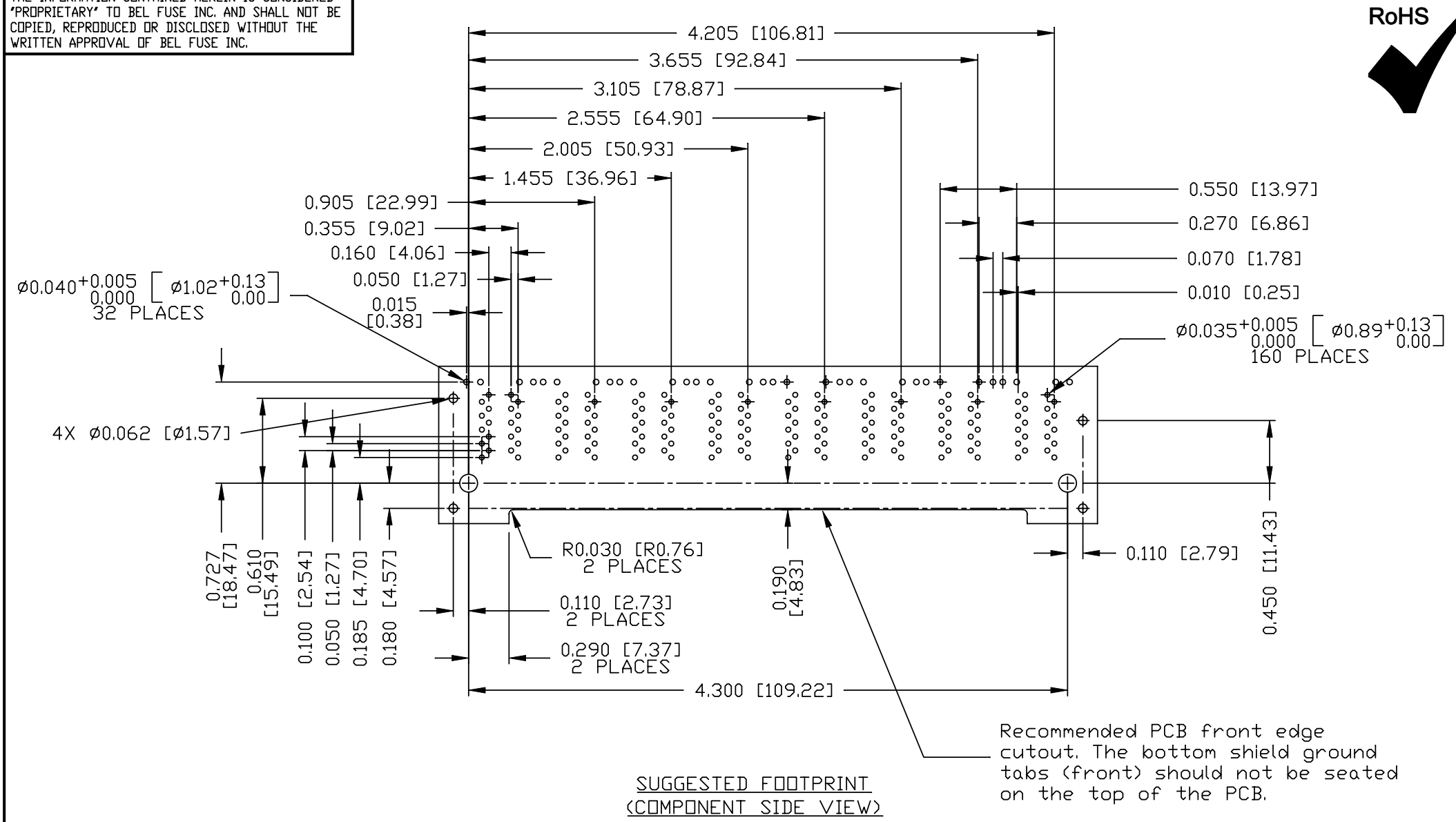
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY: ANTON LIAO	DATE: 2012-08-22	TITLE: 2X8 gigabit MagJack® (8 Cores, with LED) 0863-2X8R-54-F PATENTED	PART NO. / DRAWING NO.: 08632X8R54-F	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX ±0.004	[ ] METRIC DIM. AS REFERENCE
DRAWN BY: HE ZHEN	DATE: 2012-08-22		FILE NAME: 08632X8R54-F_B.DWG		UNIT : INCH [mm] / REV. : B
					SCALE : N/A / SIZE : A4
					PAGE : 4

This document is electronically generated. This is a controlled copy if used internally

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS



SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

ORIGINATED BY: ANTON LIAO	DATE: 2012-08-22	TITLE: 2X8 gigabit MagJack® (8 Cores, with LED) 0863-2X8R-54-F PATENTED	PART NO. / DRAWING NO.: 08632X8R54-F	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX ±0.004	[ ] METRIC DIM. AS REFERENCE
DRAWN BY: HE ZHEN	DATE: 2012-08-22		FILE NAME: 08632X8R54-F_B.DWG		UNIT : INCH [mm] / REV. : B
					SCALE : N/A / SIZE : A4
					PAGE : 5

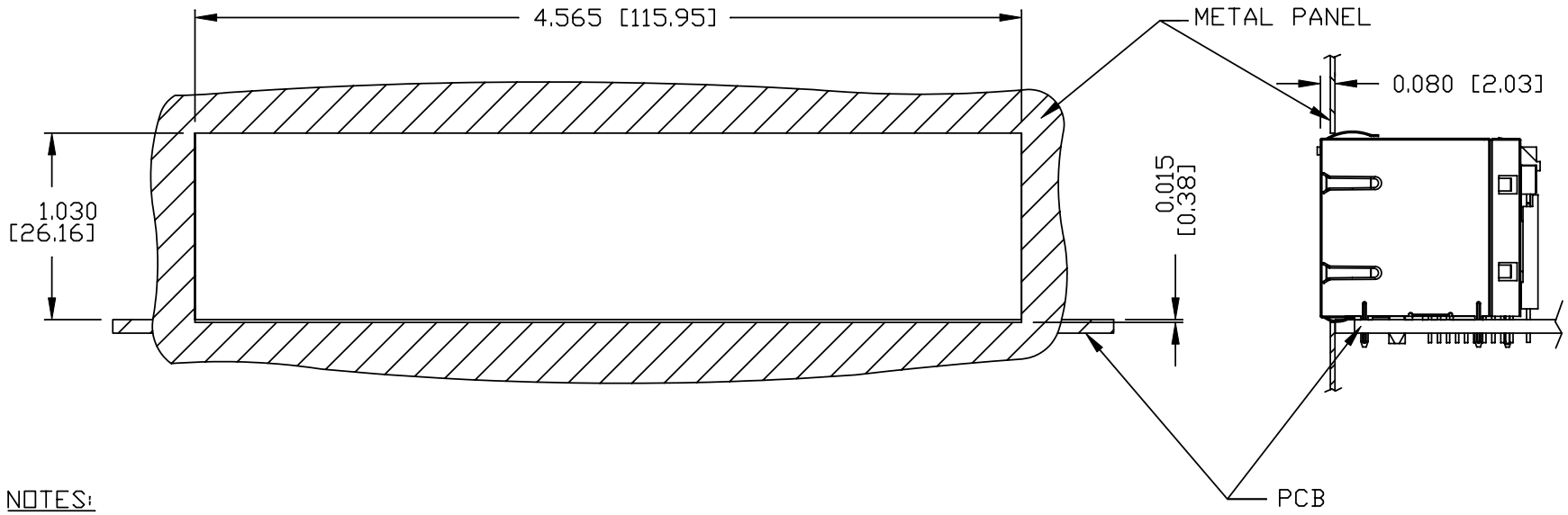
bel COMPONENTS FOR A CONNECTED PLANET

This document is electronically generated. This is a controlled copy if used internally

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS

SUGGESTED PANEL OPENING



NOTES:

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 : 0200-9999-B2 (TOP)
0200-9999-B3 (BOTTOM)

PACKING QUANTITY : 10 PCS FINISHED GOODS PER TRAY
7 TRAYS (70 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. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE	
ANTON LIAO	2012-08-22	2X8 gigabit MagJack® (8 Cores, with LED) 0863-2X8R-54-F PATENTED	08632X8R54-F	.X		UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.XX		SCALE : N/A	SIZE : A4
HE ZHEN	2012-08-22		08632X8R54-F_B.DWG	.XXX	±0.004		PAGE : 6

bel COMPONENTS FOR A CONNECTED PLANET

This document is electronically generated. This is a controlled copy if used internally