

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%

OCCL @ 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

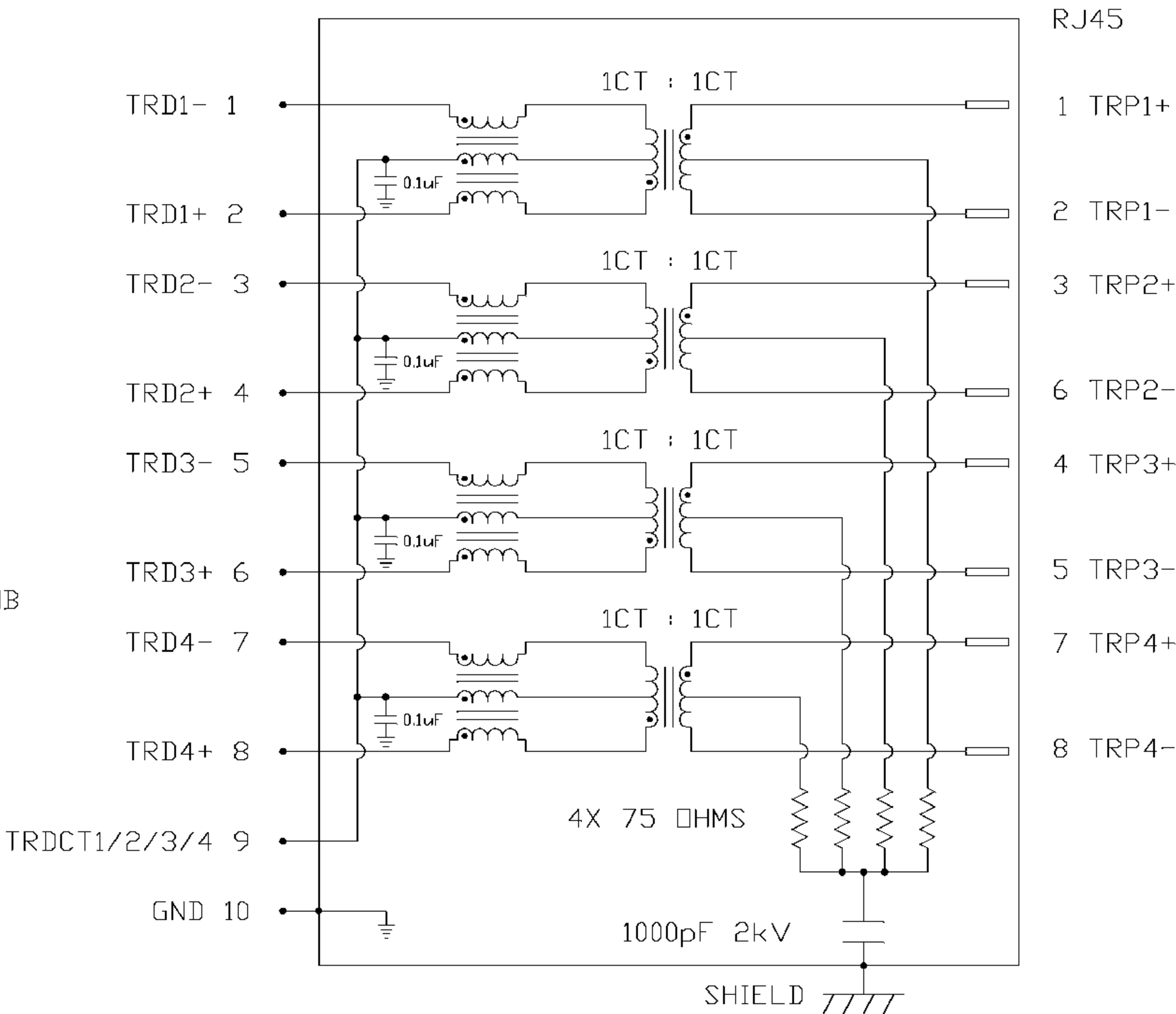
CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms

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

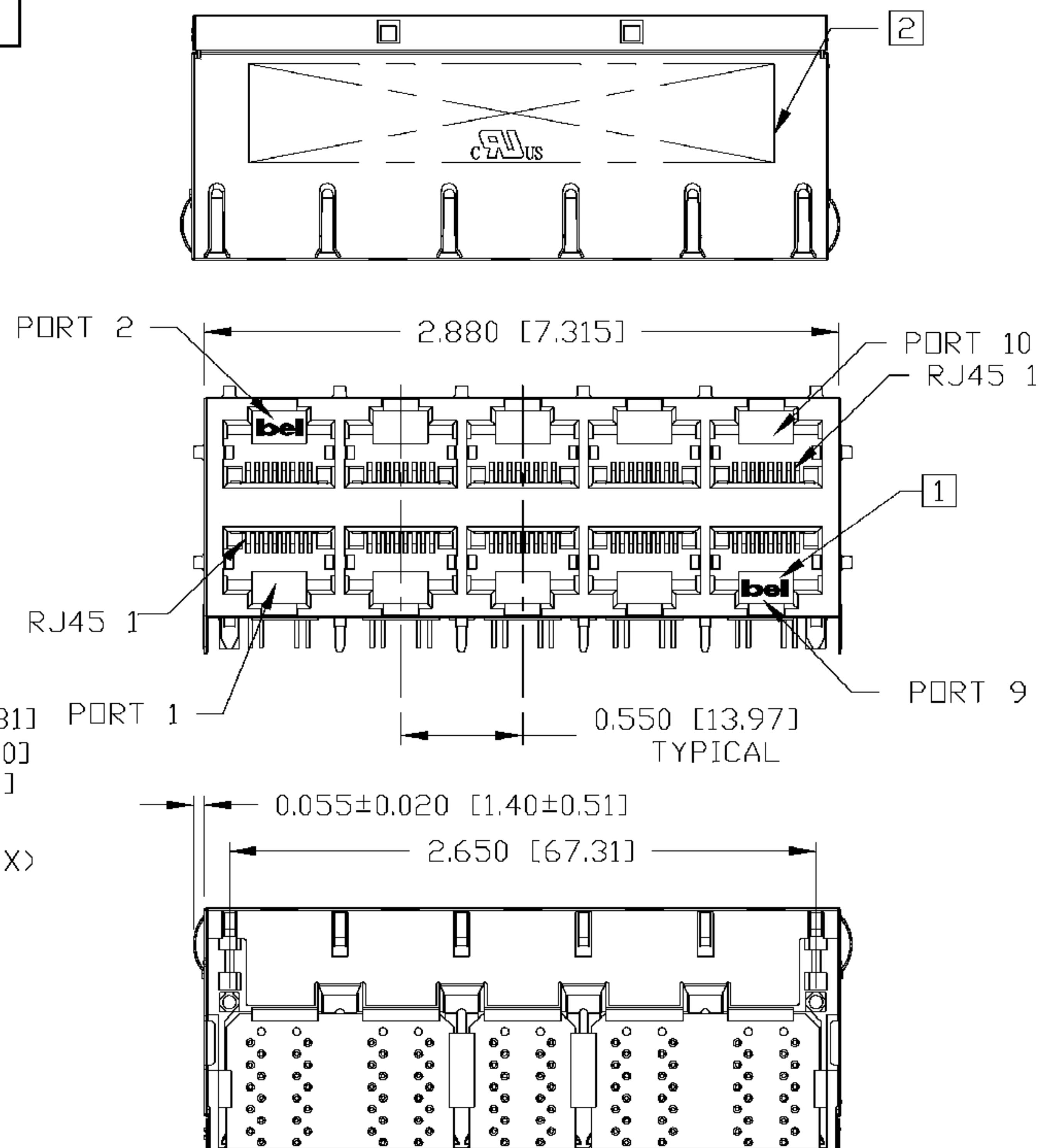
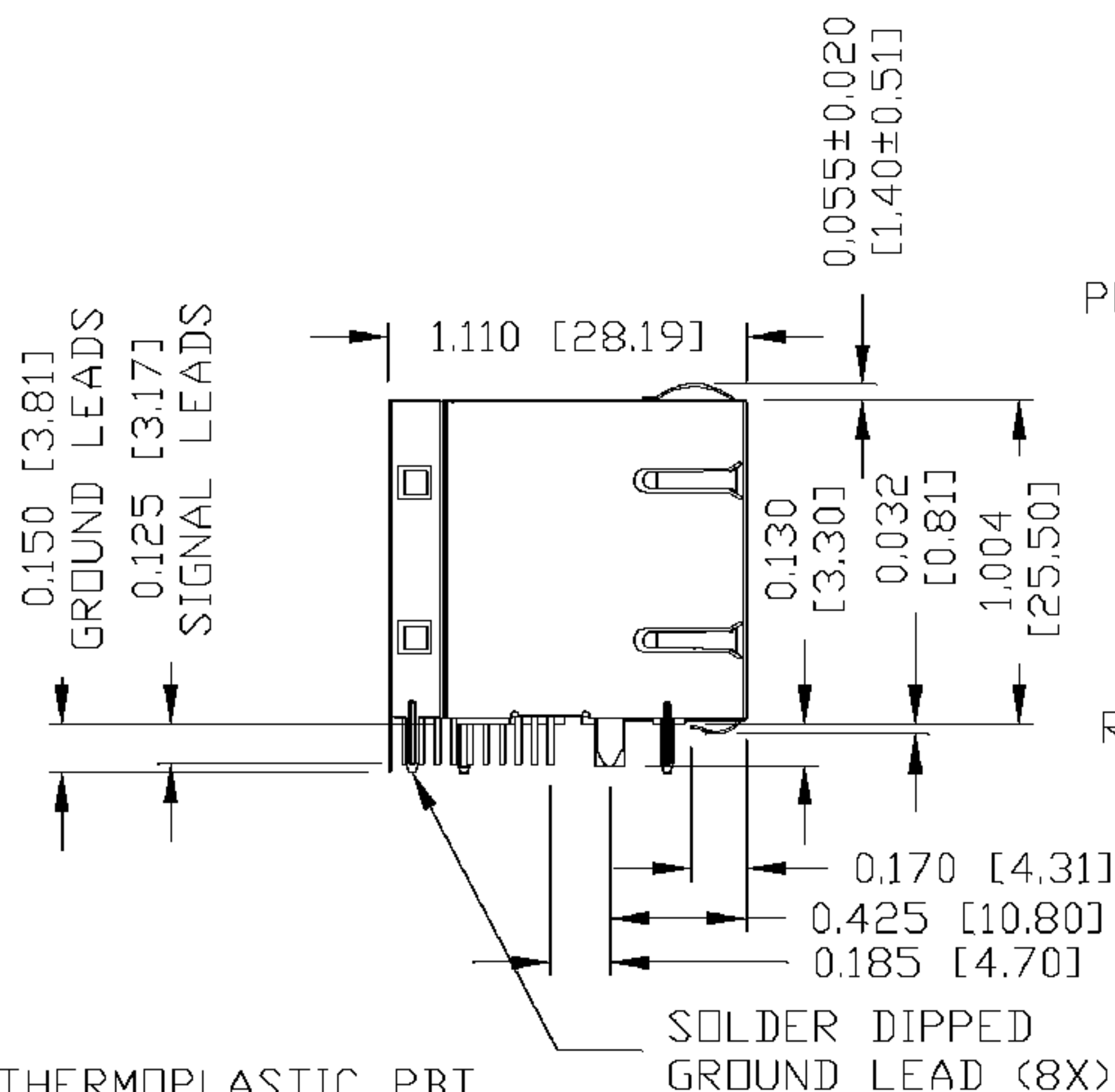
SCHEMATIC



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
WCCHOW	09-05-07	2X5 gigabit MagJack® (8 Cores)	0833-2X5J-54	TOL. IN INCH	UNIT : INCH [mm]	REV. : PA
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
WEIDE LEE	09-05-07		0833-2X5J-54_PA.DWG	.XX .XXX		PAGE : 2

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.

PRELIMINARY



NOTES:

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

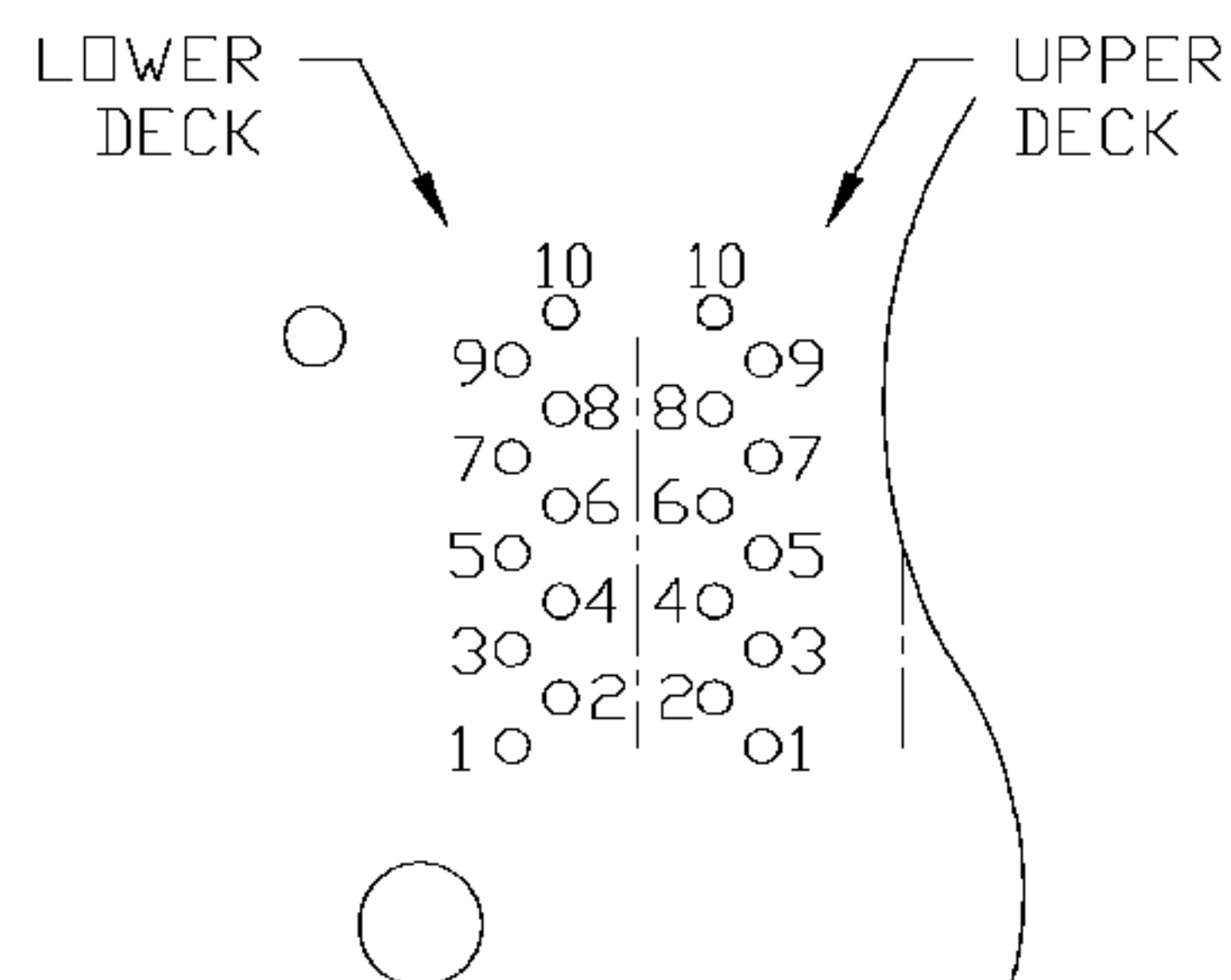
1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,
PART 68 SUBPART F.

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

bel US UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY CHEN BILL	DATE 09-05-07	TITLE 2X5 gigabit MagJack® (8 Cores)	PART NO. / DRAWING NO. 0833-2X5J-54	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
DRAWN BY GUAN HUAQING	DATE 09-05-07		FILE NAME 0833-2X5J-54_PA.DWG	.X		UNIT : INCH [mm]	REV. : PA
				.XX		SCALE : N/A	SIZE : A4
				.XXX		±0.010	

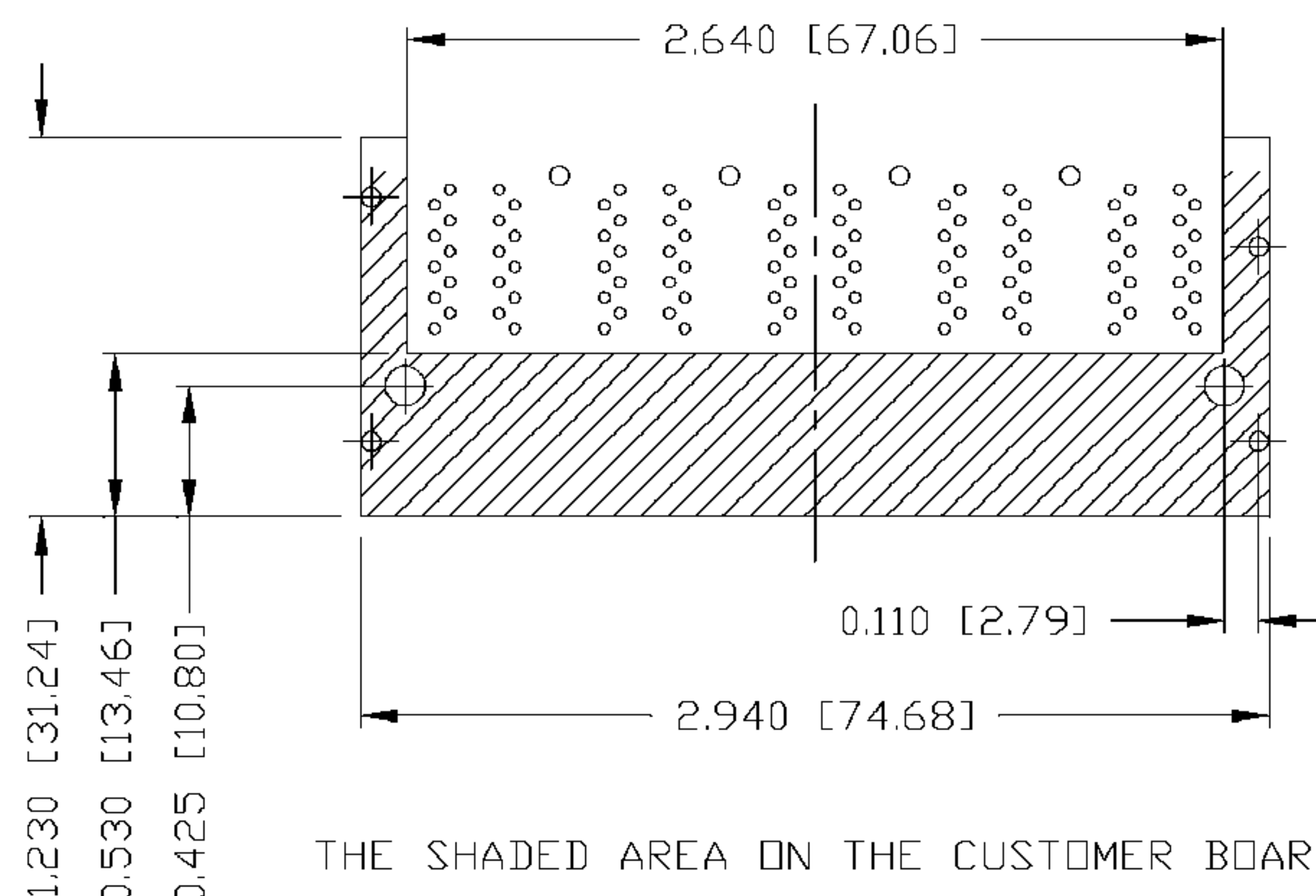
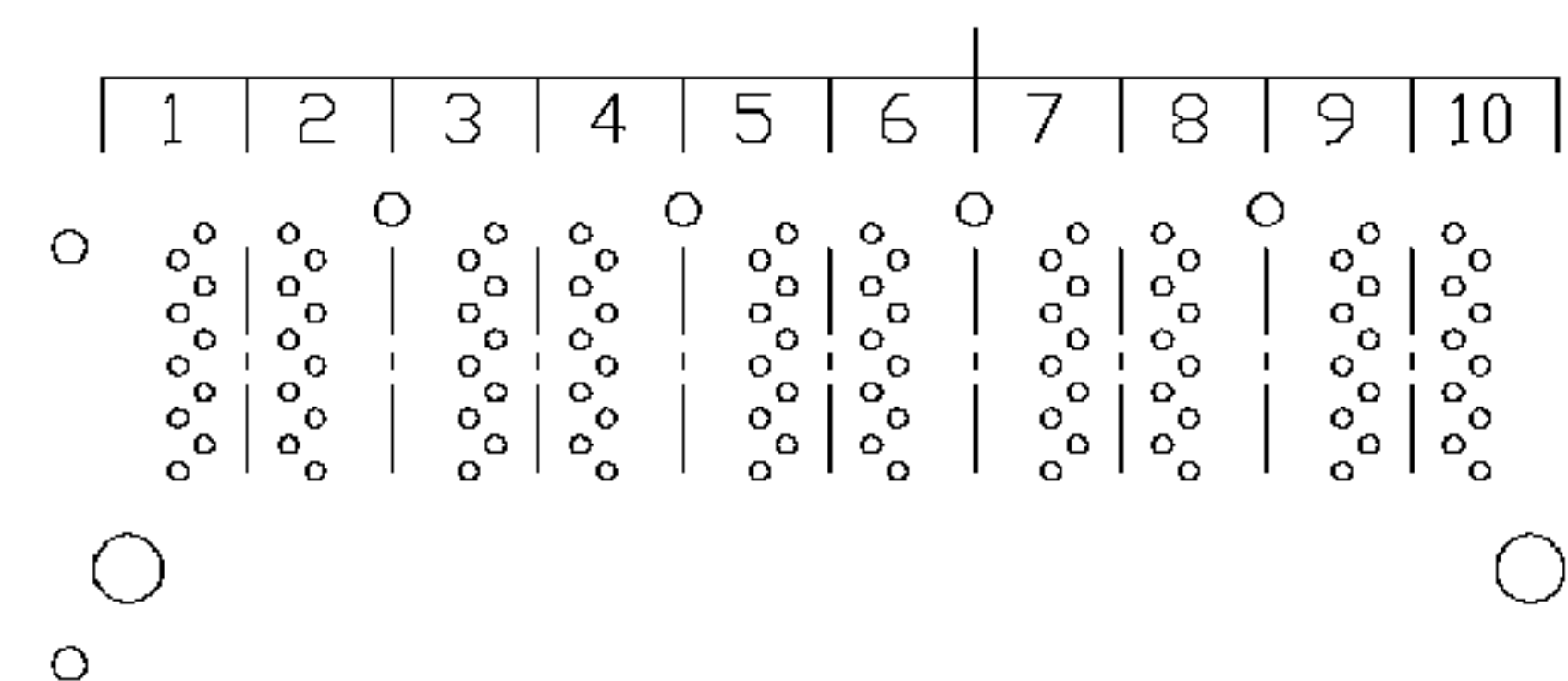

COMPONENTS FOR A
CONNECTED
PLANET



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

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-

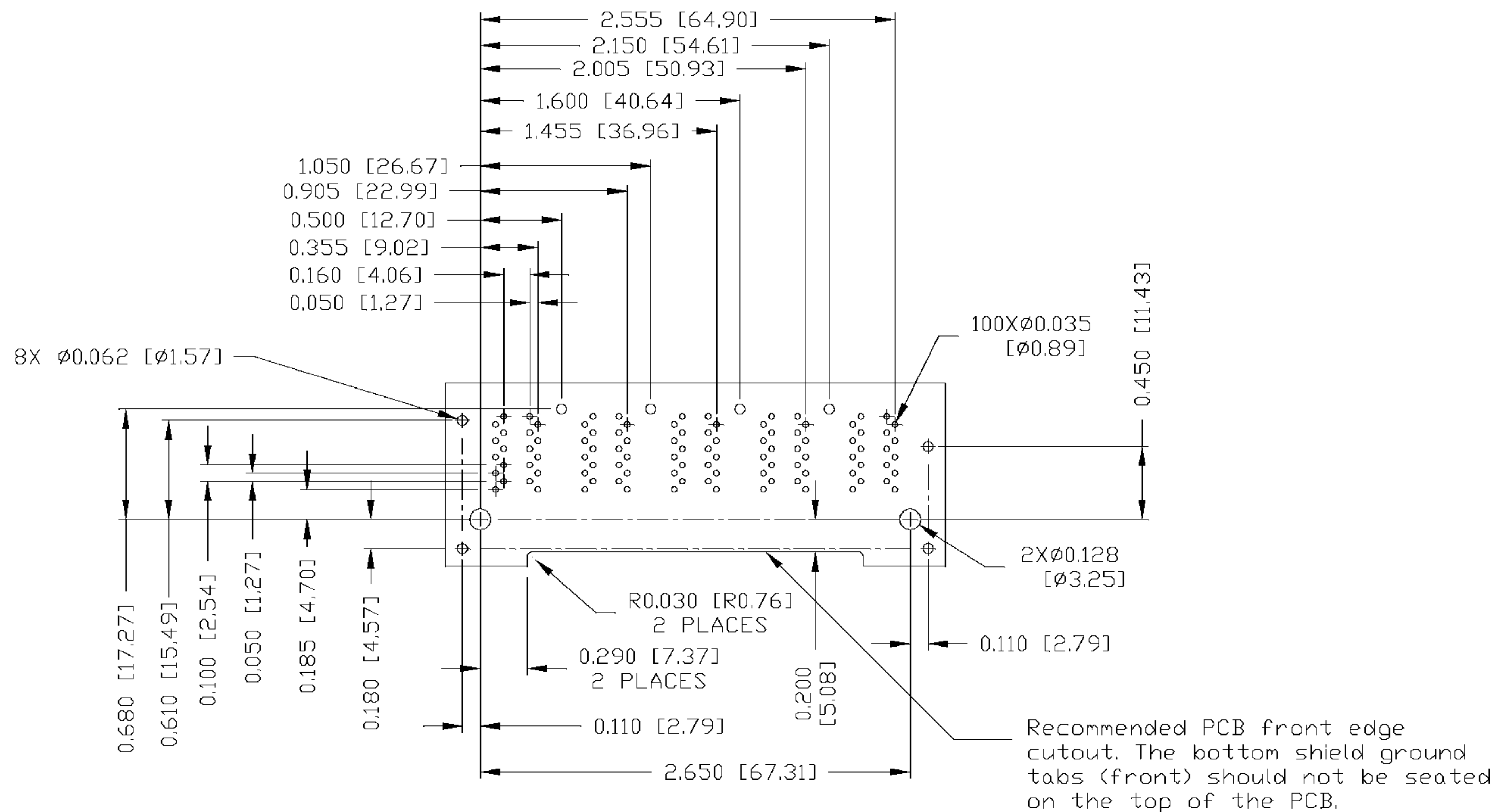
PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



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

ORIGINATED BY CHEN BILL	DATE 09-05-07	TITLE 2X5 gigabit MagJack® (8 Cores)	PART NO. / DRAWING NO. 0833-2X5J-54	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
DRAWN BY GUAN HUAQING	DATE 09-05-07		FILE NAME 0833-2X5J-54_PA.DWG	.X		UNIT : INCH [mm]	REV. : PA
				.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 4

PRELIMINARY



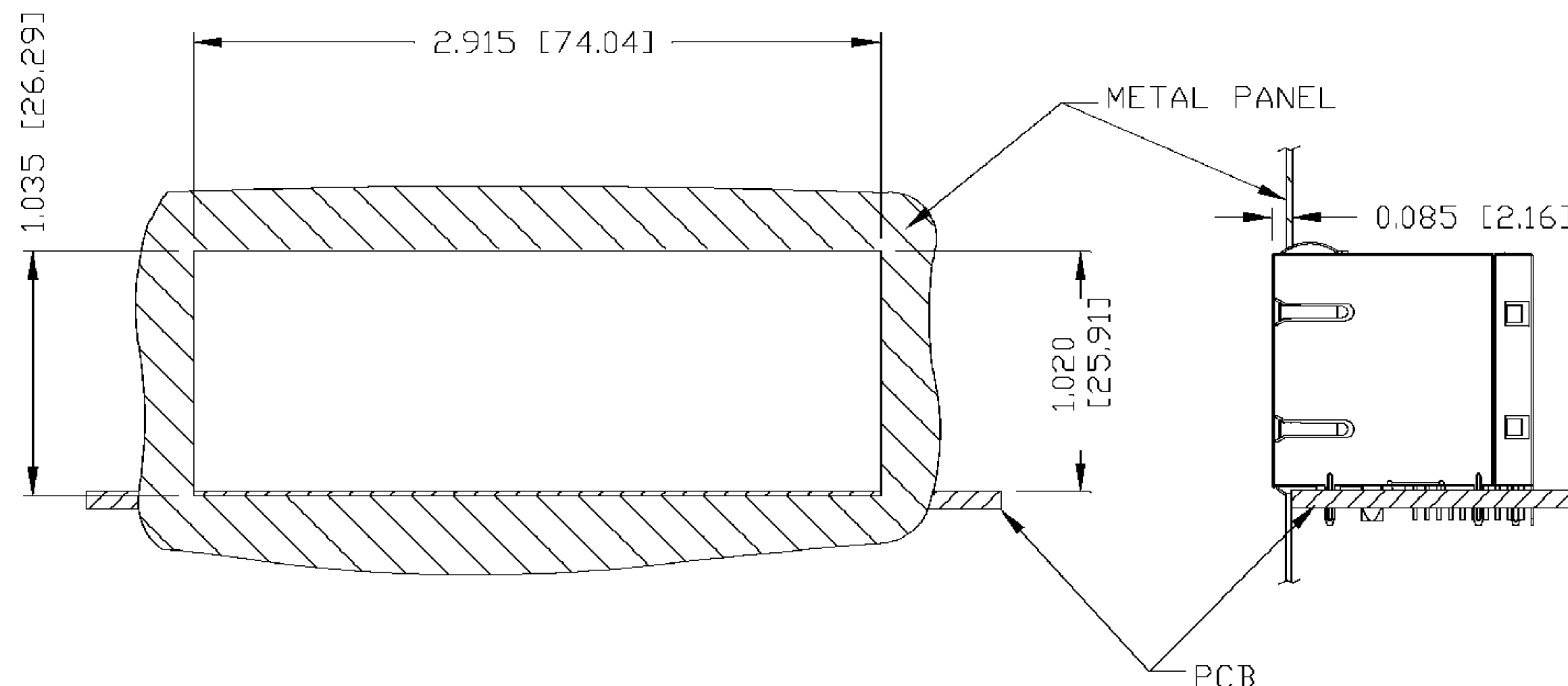
SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

ORIGINATED BY CHEN BILL	DATE 09-05-07	TITLE 2X5 gigabit MagJack® (8 Cores)	PART NO. / DRAWING NO. 0833-2X5J-54	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY GUAN HUAQING	DATE 09-05-07		FILE NAME 0833-2X5J-54_PA.DWG	.X		UNIT : INCH [mm]	REV. : PA	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.004			PAGE : 5

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.

PRELIMINARY

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.

PACKING INFORMATION

PACKING TRAY : 0200-9999-K5 (TOP)

0200-9999-K6 (BOTTOM)

PACKING QUANTITY : 15 PCS FINISHED GOODS PER TRAY

7 TRAY (105 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 CHEN BILL	DATE 09-05-07	TITLE 2X5 gigabit MagJack® (8 Cores)	PART NO. / DRAWING NO. 0833-2X5J-54	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY GUAN HUAQING	DATE 09-05-07		FILE NAME 0833-2X5J-54_PA.DWG	.X		UNIT : INCH [mm]	REV. : PA	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0,004			PAGE : 6