

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.

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TP1

TP2

TP3

TP4

□CL @ 100kHz, 100mVRMS

8mA DC BIAS

INS. LOSS

100KHz TO 100MHz

RET. LOSS (MIN)

1MHz-30MHz

30MHz-60MHz

60MHz-80MHz

80MHz-100MHz

80MHZ-100MH
CM TP CM DE I

100MHz - 100MHz

100KHZ -
CROSS TALK

CROSS TALK

1MHz - 60MHz

60MHz - 100MHz

POT (Isolation Voltage):

100% OF PRODUCTION TESTED TO COM

IEEE 802.3 ISOLATI

LEAKAGE INDUCTANCE

PRIMARY W/ SECONDARY SHORTED

TERWINDING CAPACITANCE

PER CHANNEL (PBT TO SEC)

PER CHANNEL RFI TO SEC.2
RESISTANCE

DC RESISTANCE

$$(21-15)=(16-23)=(24-18)=(19-26)$$
$$(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)$$

OPERATING TEMPERATURE:

LED 1

VF (FORWARD VOLTAGE)

ID (DOMINANT WAVELENGTH)

AD
LEB 0

1.0 2

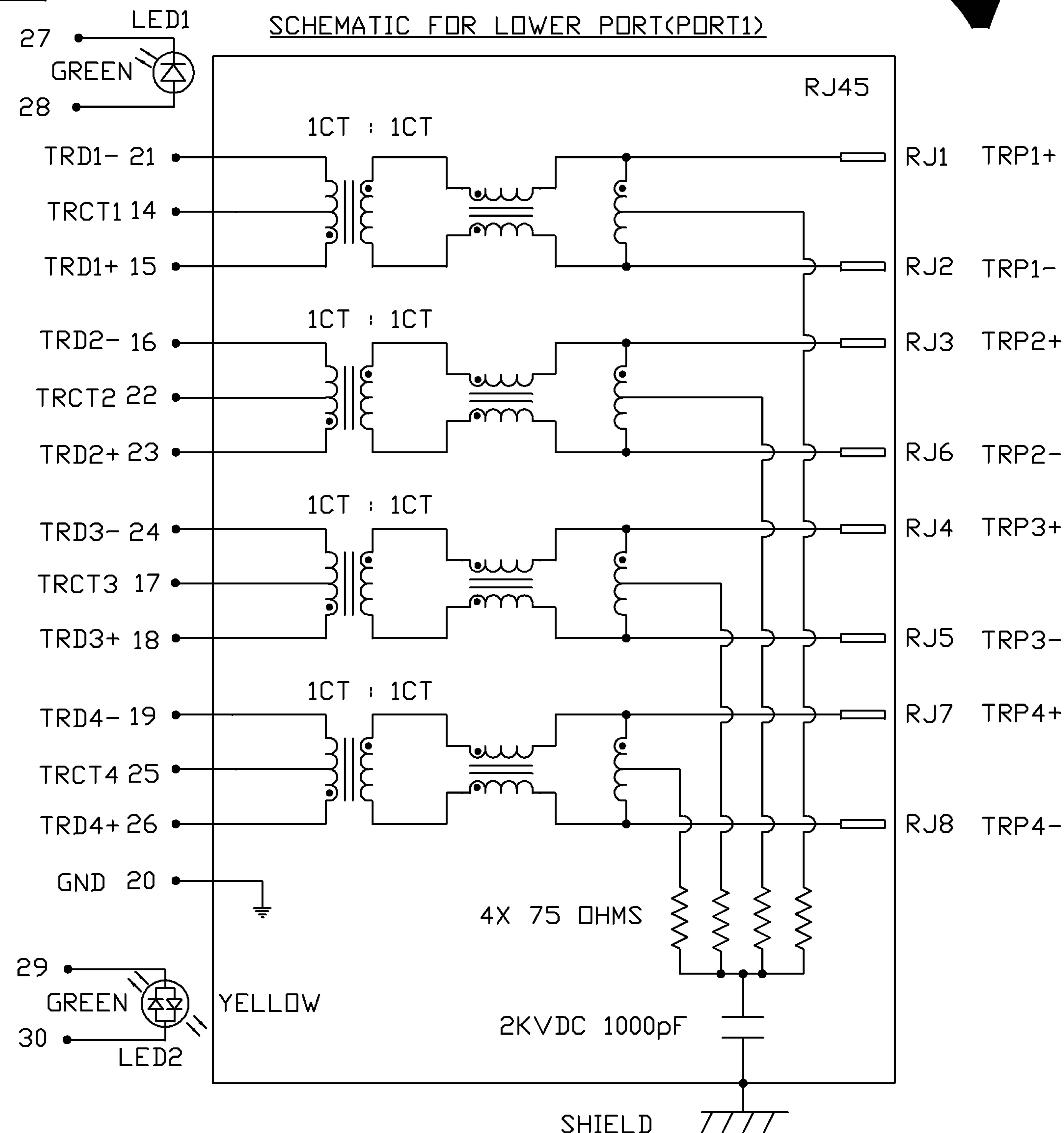
VF (FORWARD VPI TAG)



40 (DOMINANT WAVELENGTH)

LED1 POLARITY			LED2 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
—	+	GREEN	+	—	YELLOW
—	—	—	—	+	GREEN

PRELIMINARY

RoHS
2002/95/E



ORIGINATED BY CHOW WANGCHUNG		DATE 11-06-08	TITLE 2X1 gigabit MagJack® (with LED) (Extend Temperature)	PART NO. / DRAWING NO. 0845-2R1T-FD		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 bel COMPONENTS FOR A CONNECTED PLANET
DRAWN BY LI YONGFENG		DATE 11-06-08		FILE NAME 0845-2R1T-FD_PB.DWG	.X		UNIT : INCH [mm]		REV. : PB	
					.XX		SCALE : N/A		SIZE : A4	
					.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.

ELECTRICAL CHARACTERISTICS @ 25°C

Turns Ratio

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

QCL @ 100kHz,100mVRMS

8mA DC BIAS	350 uH MIN.
-------------	-------------

INS. LOSS

100KHz TO 100MHz	-1.1 dB MAX
------------------	-------------

RET. LOSS (MIN)

1MHz-30MHz	-18 dB
------------	--------

30MHz-60MHz	-16 dB
-------------	--------

60MHz-80MHz	-14 dB
-------------	--------

80MHz-100MHz	-12 dB
--------------	--------

CM TO CM REJ

100kHz - 100MHz	-25 dB TYP
-----------------	------------

CROSS TALK

1MHz - 60MHz	-35 dB TYP
--------------	------------

60MHz - 100MHz	-25 dB TYP
----------------	------------

HIPOT (Isolation Voltage):

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

LEAKAGE INDUCTANCE

PRIMARY W/ SECONDARY SHORTED	0.3uH Max. @ 1MHz
------------------------------	-------------------

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz
----------------------------	-----------------

DC RESISTANCE

(13-6)=(5-11)=(10-3)=(2-8)	1.2 ohms Max
----------------------------	--------------

(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
---	--------------

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

LED 3 (Super bright)

VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
----------------------	-------------------------

λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.
--------------------------	--------------------------

LED 4 (Super bright)	IF=20mA GREEN 2.2V TYP.
----------------------	-------------------------

VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
----------------------	-------------------------

λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.
--------------------------	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

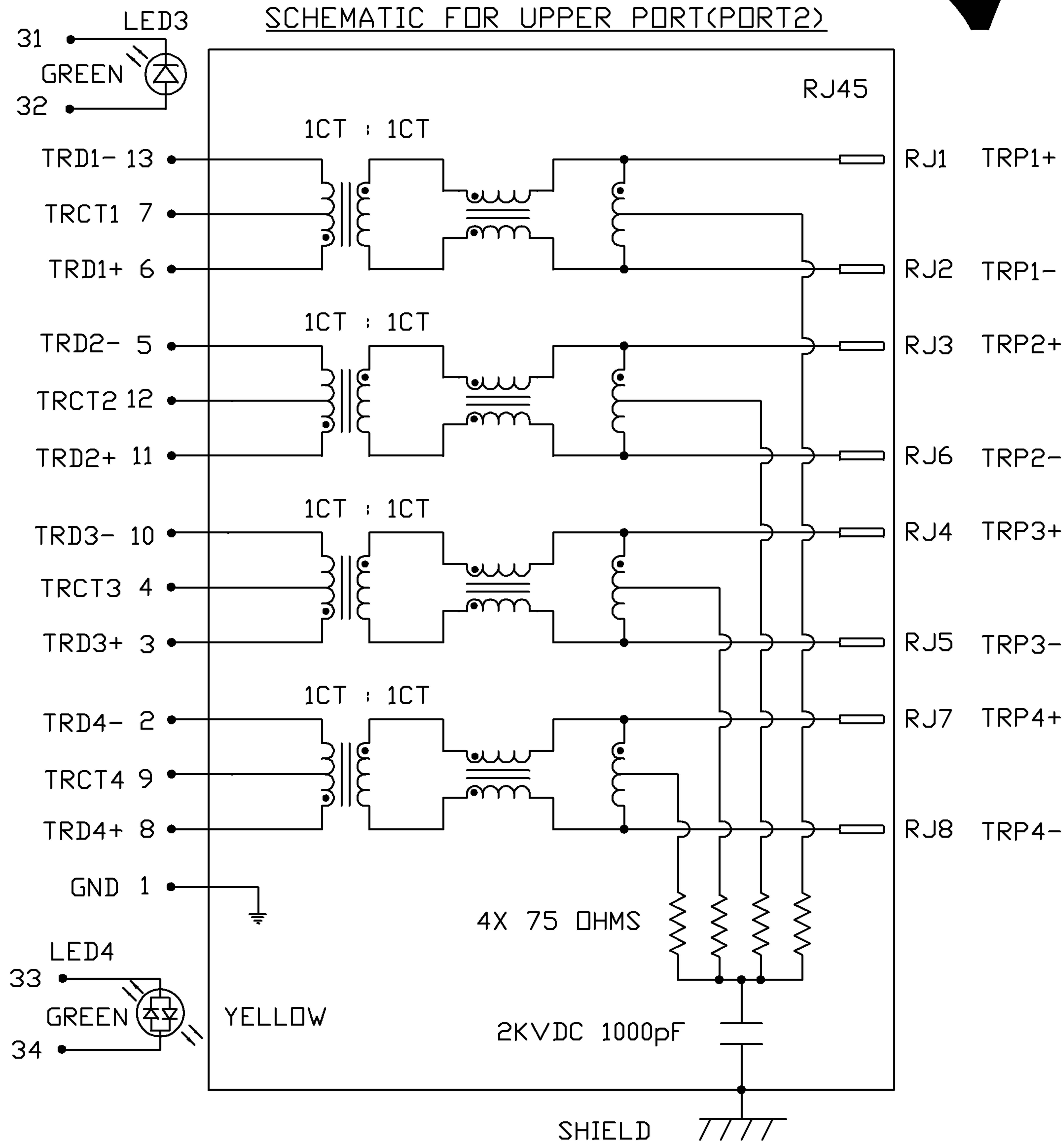
	IF=20mA GREEN 565nm TYP.
--	--------------------------

	IF=20mA GREEN 565nm TYP.
--	--------------------------

LED3 POLARITY			LED4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

PRELIMINARY

RoHS
2002/95/EC



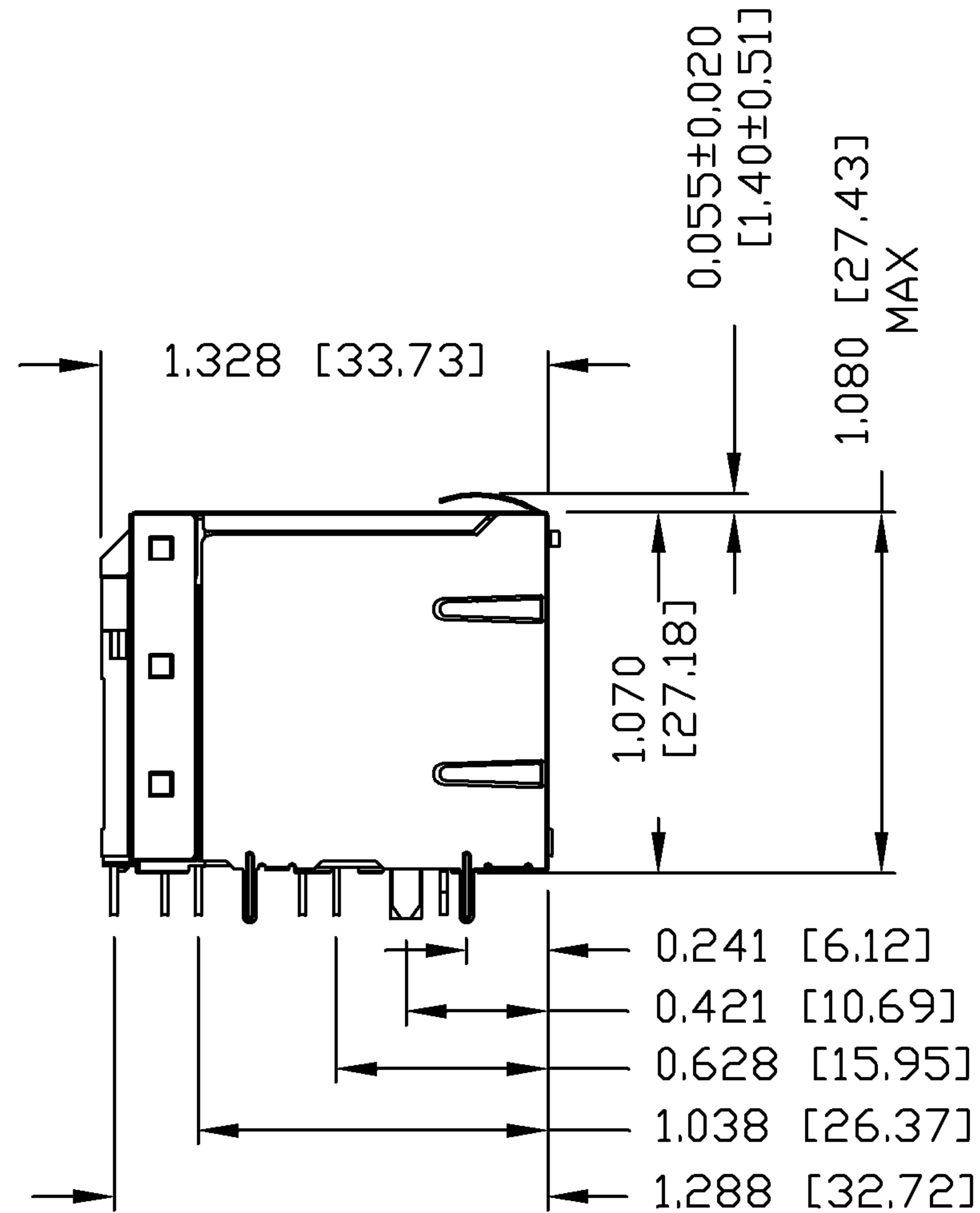
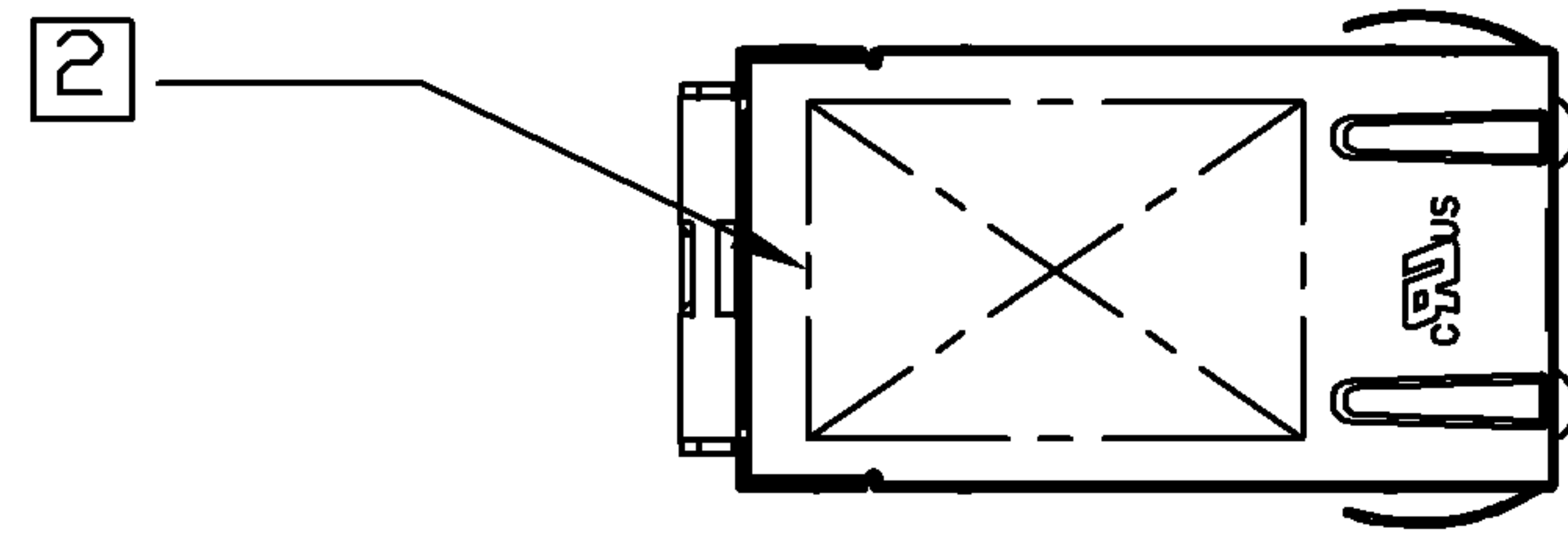
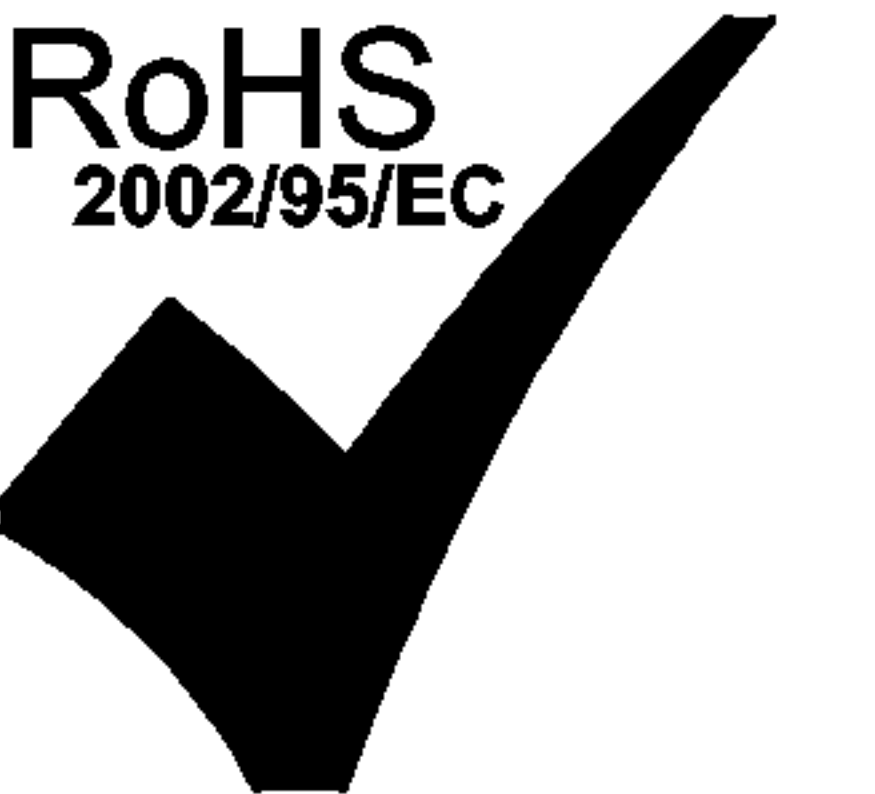
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	11-06-08	2X1 gigabit MagJack®	0845-2R1T-FD	TOL. IN INCH	UNIT : INCH [mm]
DRAWN BY	DATE	(with LED)	FILE NAME	.X	REV. : PB
LI YONGFENG	11-06-08	(Extend Temperature)	0845-2R1T-FD_PB.DWG	.XX	SCALE : N/A
				.XXX	SIZE : A4
					PAGE : 3



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
2002/95/EC

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.

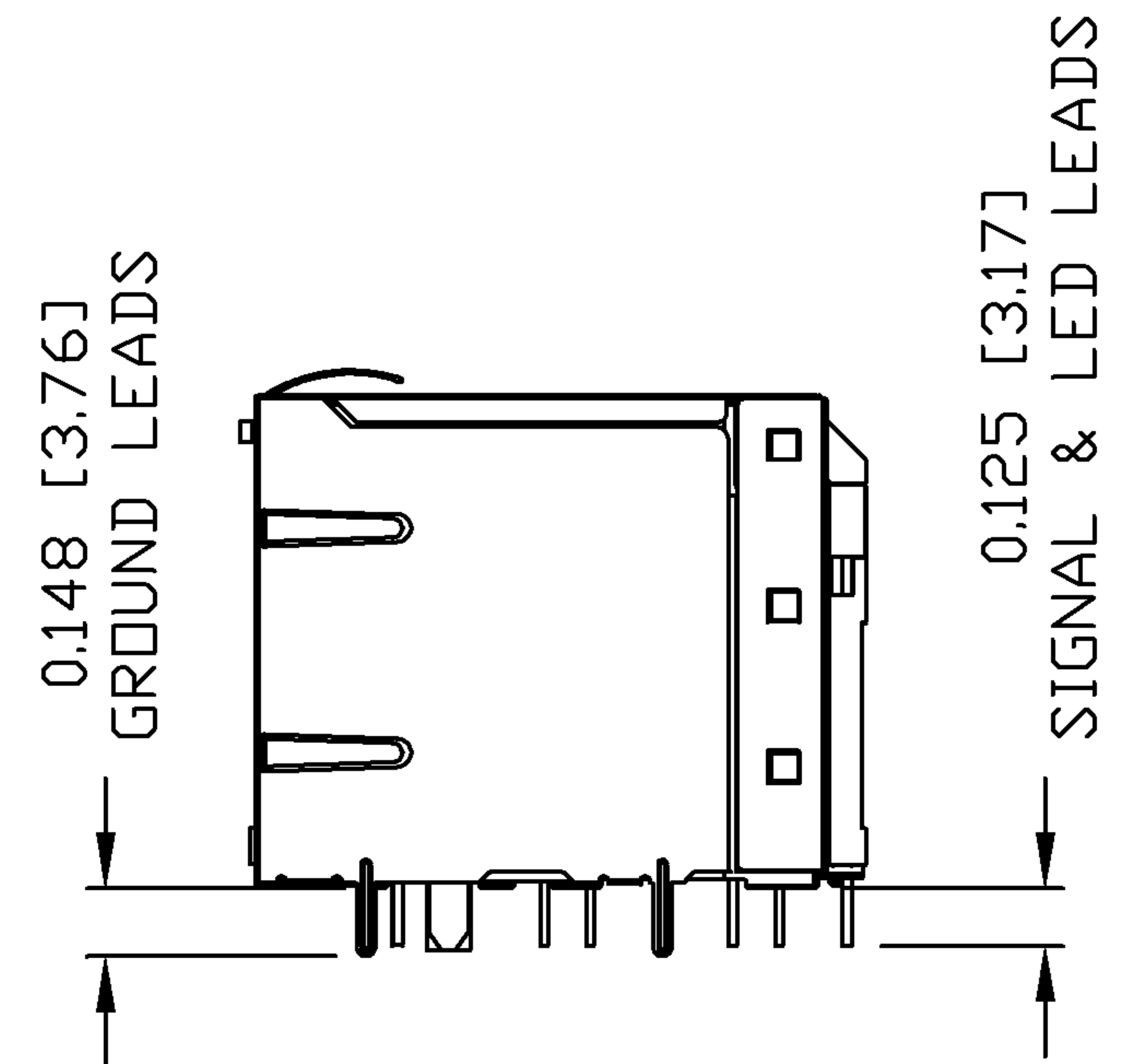
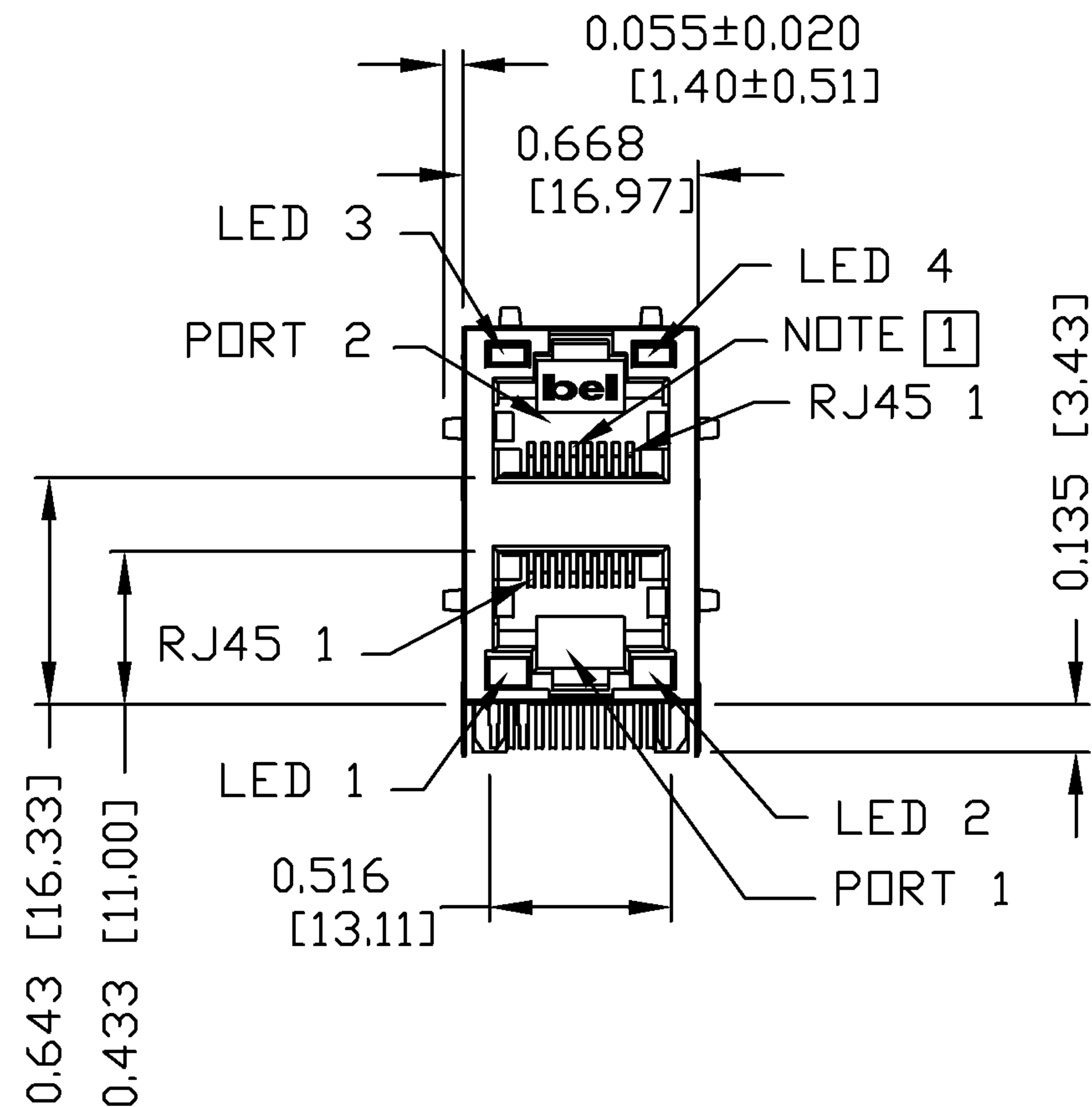
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)



RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

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.

 US UL RECOGNIZED - FILE #E196366 AND E169987.

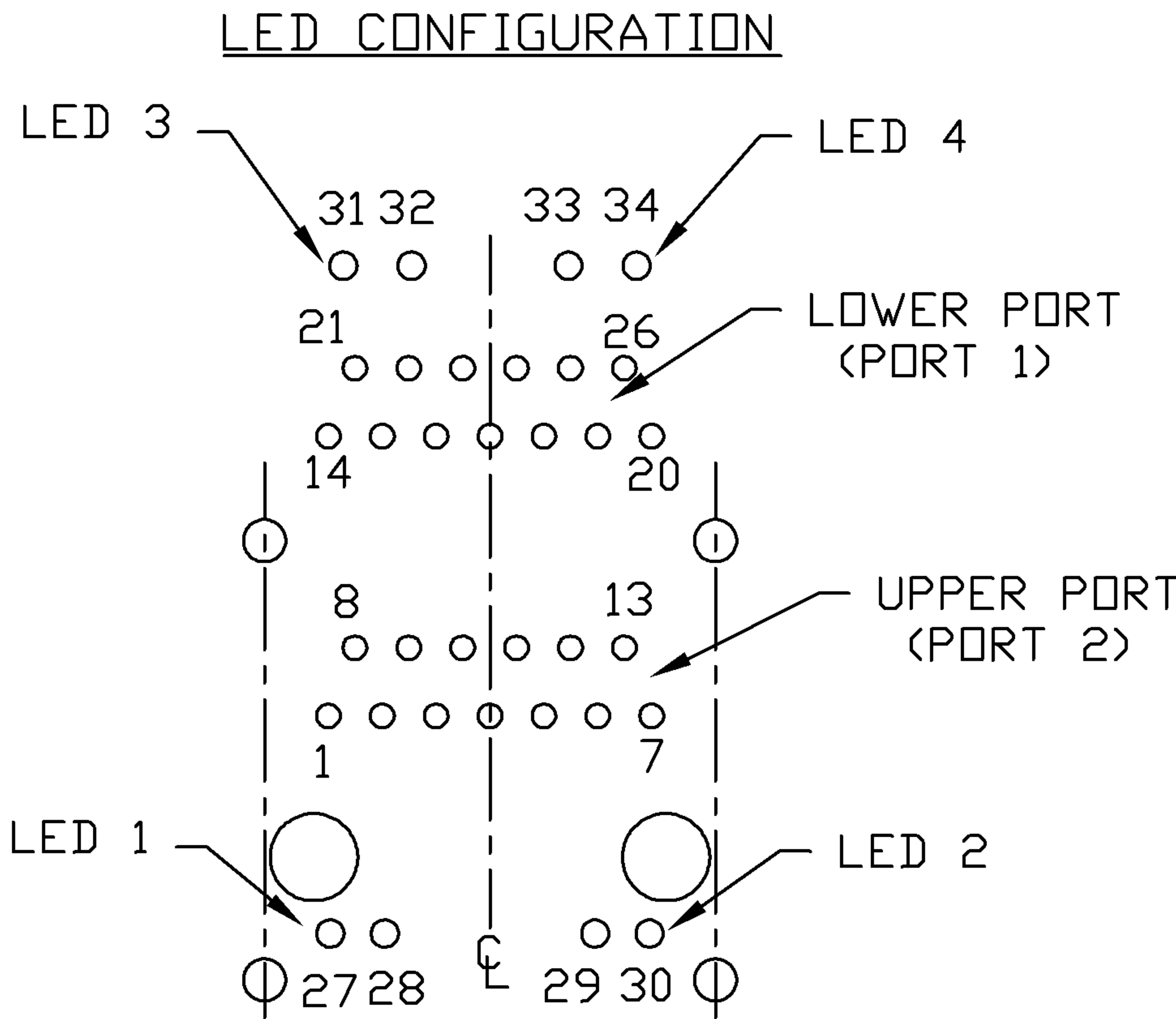


ORIGINATED BY	DATE	TITLE 2X1 gigabit MagJack® (with LED) (Extend Temperature)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
CHEN BILL	11-06-08		0845-2R1T-FD	TOL. IN INCH		UNIT : INCH [mm] REV. : PB		
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A SIZE : A4		
XIAN JIAXIN	11-06-08		0845-2R1T-FD_PB.DWG	.XX		 PAGE : 4		
			.XXX	±0.010				

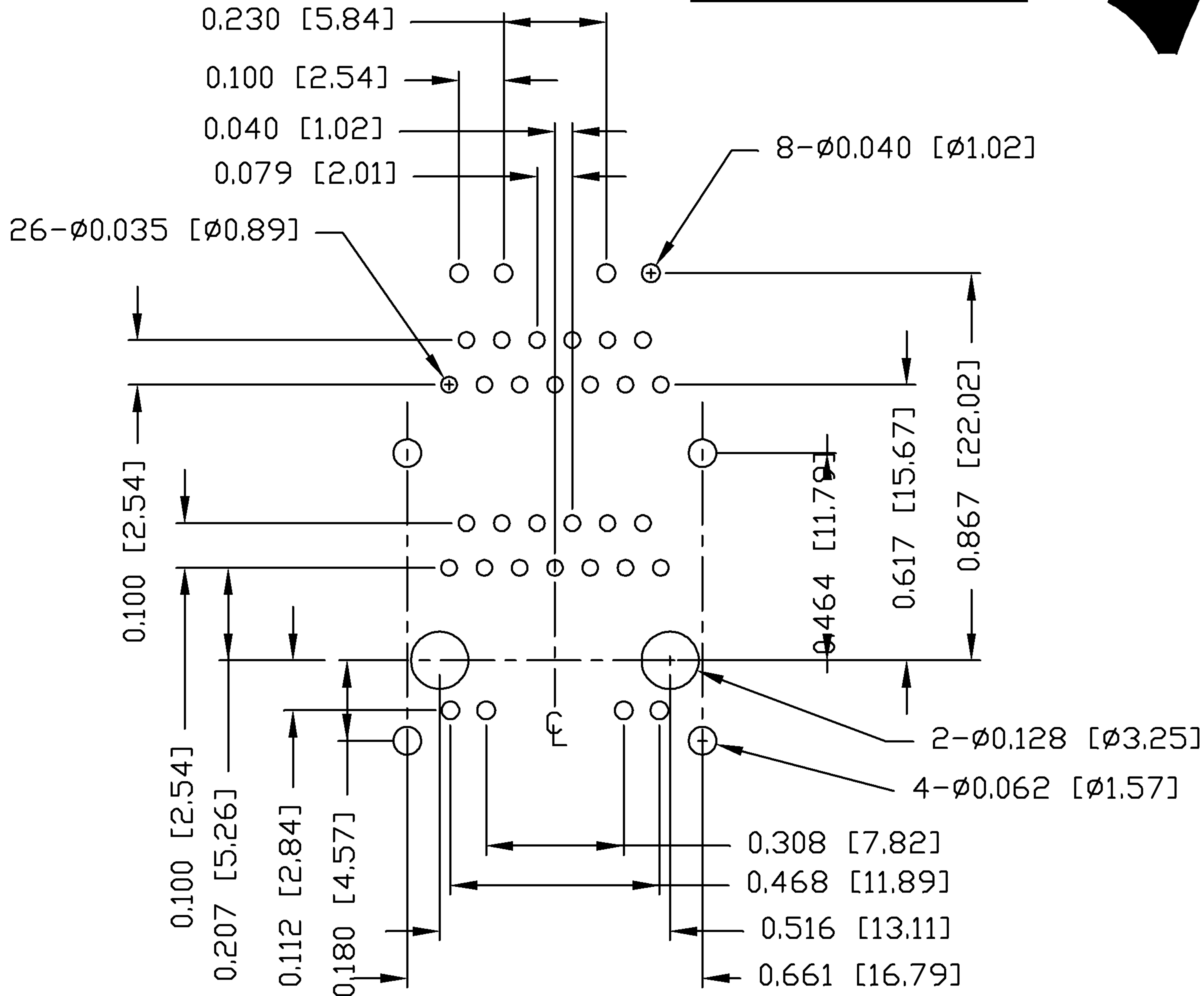
THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



PRELIMINARY



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)
(SCALE 2:1)

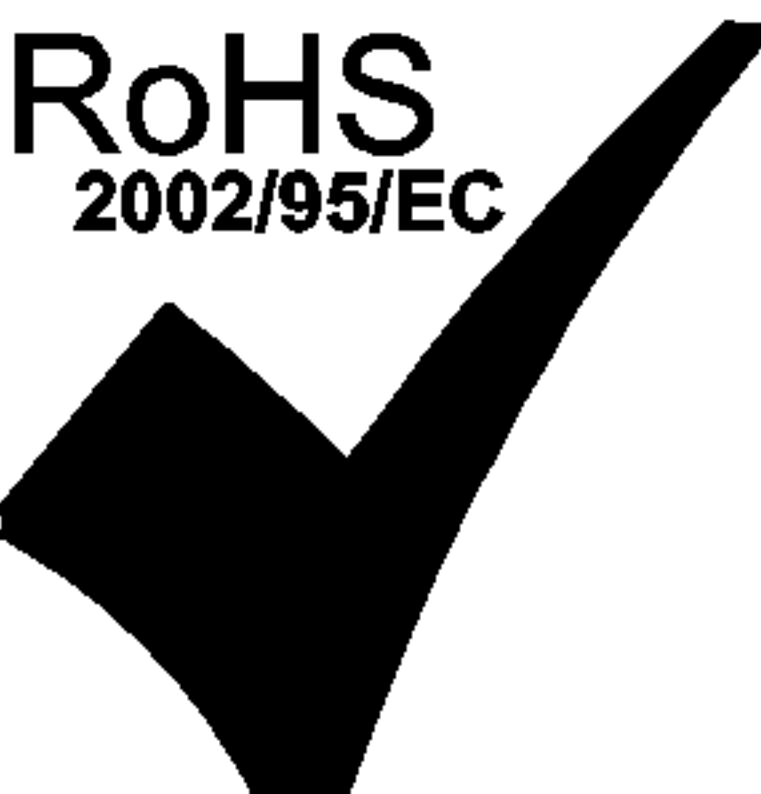


SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)
(SCALE 2:1)

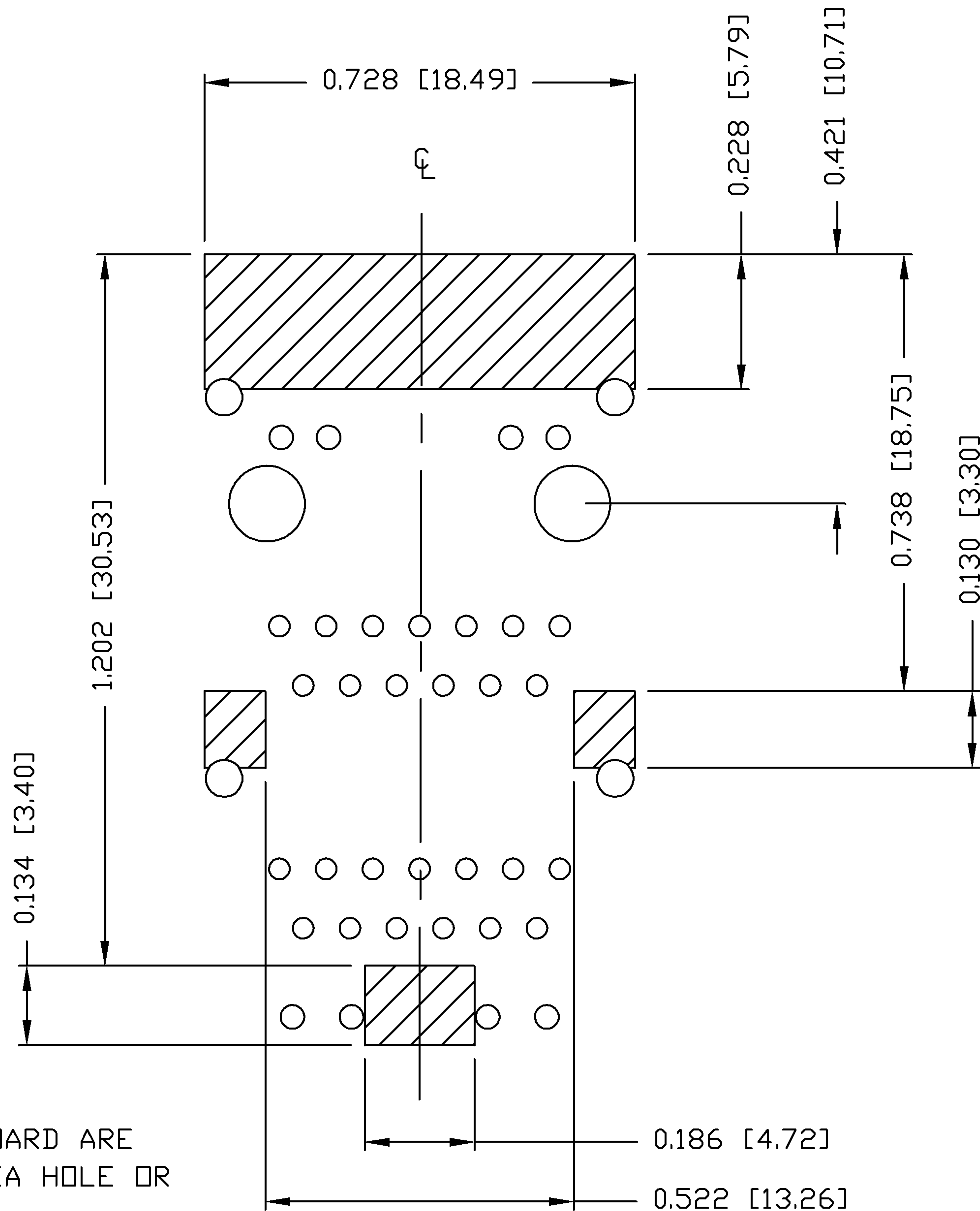
ORIGINATED BY	DATE	TITLE 2X1 gigabit MagJack® (with LED) (Extend Temperature)	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE	
CHEN BILL	11-06-08		0845-2R1T-FD	TOL. IN INCH		UNIT : INCH [mm]	REV. : PB
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4
XIAN JIAXIN	11-06-08		0845-2R1T-FD_PB.DWG	.XX			PAGE : 5
				.XXX	±0.004		



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

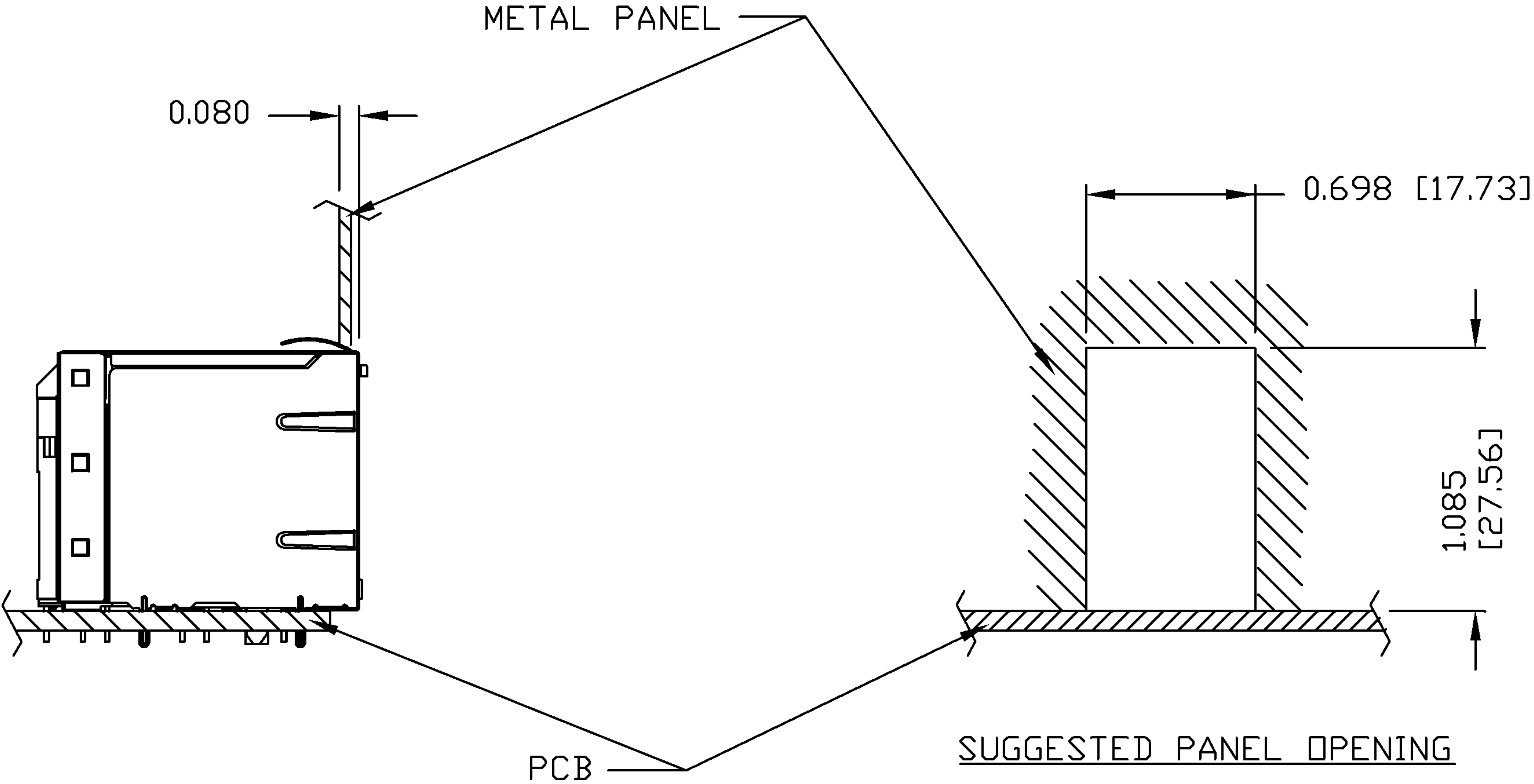
THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

ORIGINATED BY	DATE	TITLE 2X1 gigabit MagJack® (with LED) (Extend Temperature)	PART NO. / DRAWING NO. 0845-2R1T-FD		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
CHEN BILL	11-06-08		FILE NAME 0845-2R1T-FD_PB.DWG	.X		UNIT : INCH [mm]	REV. : PB		
DRAWN BY	DATE			.XX		SCALE : N/A	SIZE : A4		
XIAN JIAXIN	11-06-08			.XXX		±0.004		PAGE : 6	

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



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-H5 (TOP)
0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY
6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.
(INCLUDE THE UPPERMOST AND LOWEREST TRAY)

ORIGINATED BY		DATE	TITLE 2X1 gigabit MagJack® (with LED) (Extend Temperature)	PART NO. / DRAWING NO.		STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
CHEN BILL		11-06-08		0845-2R1T-FD		TOL. IN INCH		UNIT : INCH [mm]	REV. : PB	
DRAWN BY		DATE		FILE NAME		.X		SCALE : N/A	SIZE : A4	
XIAN JIAXIN		11-06-08		0845-2R1T-FD_PB.DWG		.XX				
						.XXX	±0.004		PAGE : 7	