

# ELECTRICAL CHARACTERISTICS @ 25°C

## TURN'S RATIO

TX 1CT : 1  
RX 1CT : 1

QCL @ 100kHz/100mVRMS 350μH MIN.

8mA DC BIAS (0°C - 70°C)

## INS. LOSS

1MHz TO 100MHz -1.0 dB MAX

RET. LOSS (MIN) @ 100ΩHMS ±15%

1MHz-30MHz -18 dB  
30MHz-60MHz -18+20LOG<F/30MHz> dB  
60MHz-80MHz -12 dB

## CROSS TALK (TX - RX)

500kHz-1MHz -70 dB MIN  
10 MHz -50 dB MIN  
30 MHz -45 dB MIN  
50 MHz -40 dB MIN  
100 MHz -35 dB MIN

## CM TO CM REJ

100kHz-1MHz -70 dB MIN  
10 MHz -47 dB MIN  
30 MHz -42 dB MIN  
60 MHz -37 dB MIN  
100 MHz -30 dB MIN

## CM TO DM REJ

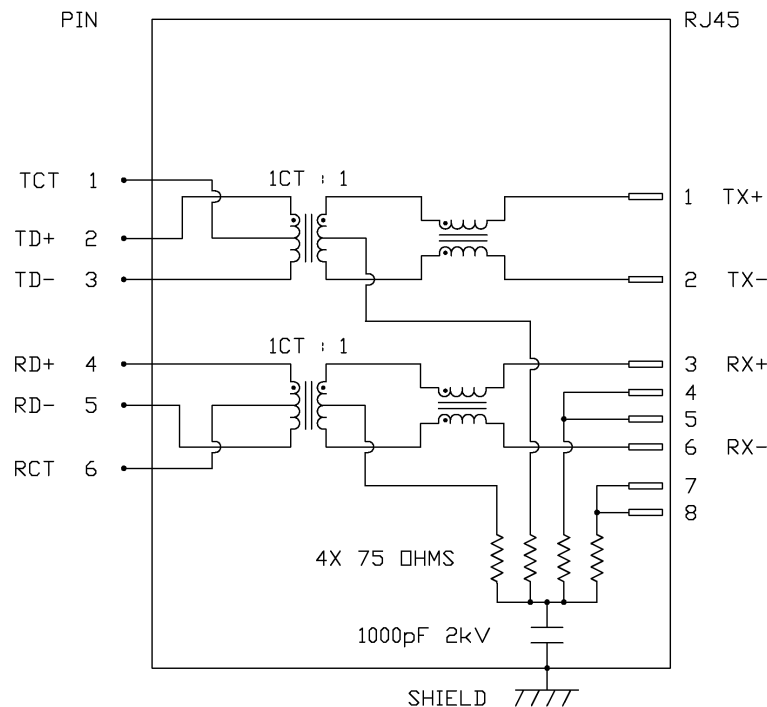
100kHz-1MHz -70 dB MIN  
10 MHz -60 dB MIN  
30 MHz -50 dB MIN  
60 MHz -45 dB MIN  
100 MHz -40 dB MIN




HIPOT (Isolation Voltage): 1500 Vrms

100% OF PRODUCT TESTED IN PRODUCTION

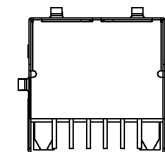
TO COMPLY WITH IEEE 802.3 REQUIREMENTS

## SCHEMATIC





ORIGINATED BY	DATE	TITLE  1X1 MagJack®  (LOW PROFILE)	PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		 COMPONENTS ON A CONNECTED PLANET
CHUNG	02-21-06		L816-1X1T-06	TOL. IN INCH		UNIT : INCH [mm] REV. : A		
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
DE	02-21-06		L8161X1T06A.DWG	.XX			PAGE : 2	
			.XXX					

**RoHS**  
2002/95/EC

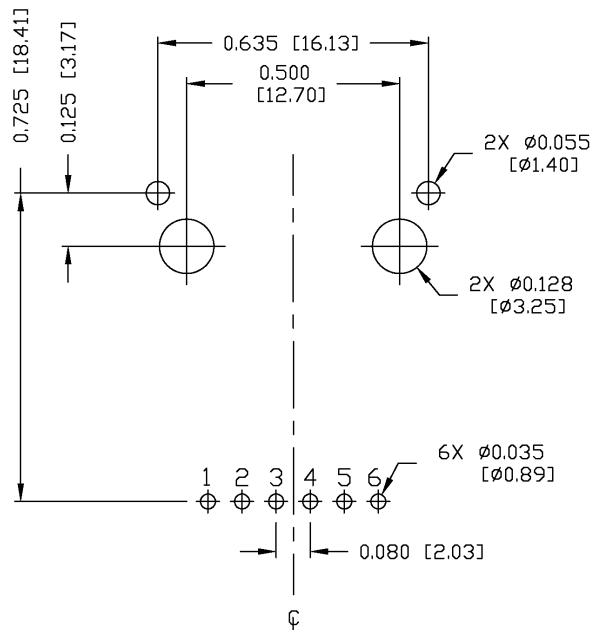



**UL RECOGNIZED - FILE #E196366 AND E169987.**  
**2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.**

ORIGINATED BY	DATE	TITLE  1X1 MagJack® (LOW PROFILE)	PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
QIN	02-21-06		L816-1X1T-06	TOL. IN INCH		UNIT : INCH [mm] REV. : A		
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A SIZE : A4		
TING	02-21-06		L8161X1T06A.DWG	.XX		.XXX	 PAGE : 3	

# RECOMMENDED PCB FOOTPRINT

(COMPONENT SIDE VIEW)



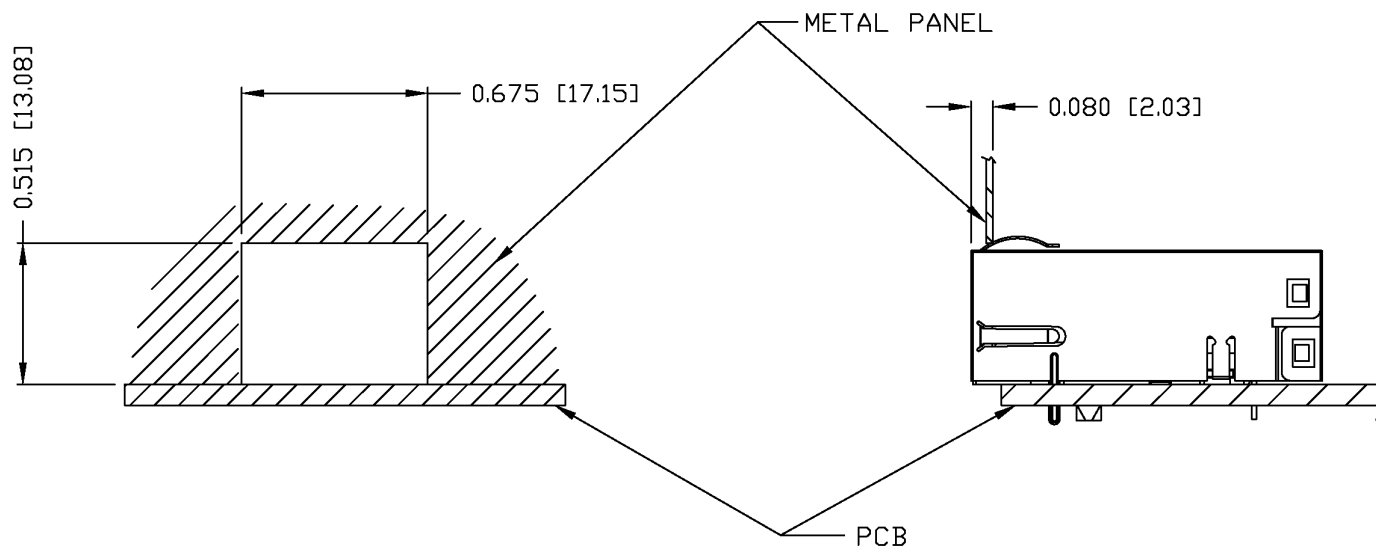
<b>ORIGINATED BY</b> QIN	<b>DATE</b> 02-21-06	<b>TITLE</b> 1X1 MagJack® (LOW PROFILE)	<b>PART NO. / DRAWING NO.</b> L816-1X1T-06	<b>STANDARD DIM.</b> TOL. IN INCH	<b>[ ] METRIC DIM. AS REFERENCE</b>	
<b>DRAWN BY</b> TING	<b>DATE</b> 02-21-06	<b>FILE NAME</b> L8161X1T06A.DWG	<b>UNIT : INCH [mm]</b> .X .XX .XXX	<b>SCALE : N/A</b> ±0.004	<b>REV. : A</b> <b>SIZE : A4</b> <b>PAGE : 4</b>	

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



# 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-D6 (TOP)

0200-9999-D7 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY

11 TRAYS (440 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	
				TOL. IN INCH		UNIT : INCH [mm]	REV. : A
QIN	02-21-06	1X1 MagJack® (LOW PROFILE)	L816-1X1T-06	.X		SCALE : N/A	SIZE : A4
DRAWN BY	DATE		FILE NAME	.XX		PAGE : 5	
TING	02-21-06		L8161X1T06A.DWG	.XXX	±0.004		

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET