

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.

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

PRELIMINARY

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

DCL @ 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):

1500 Vrms

LEAKAGE INDUCTANCE

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

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)	20pF Max @ 1MHz
----------------------------	-----------------

DC RESISTANCE

(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max
---------------------------------	--------------

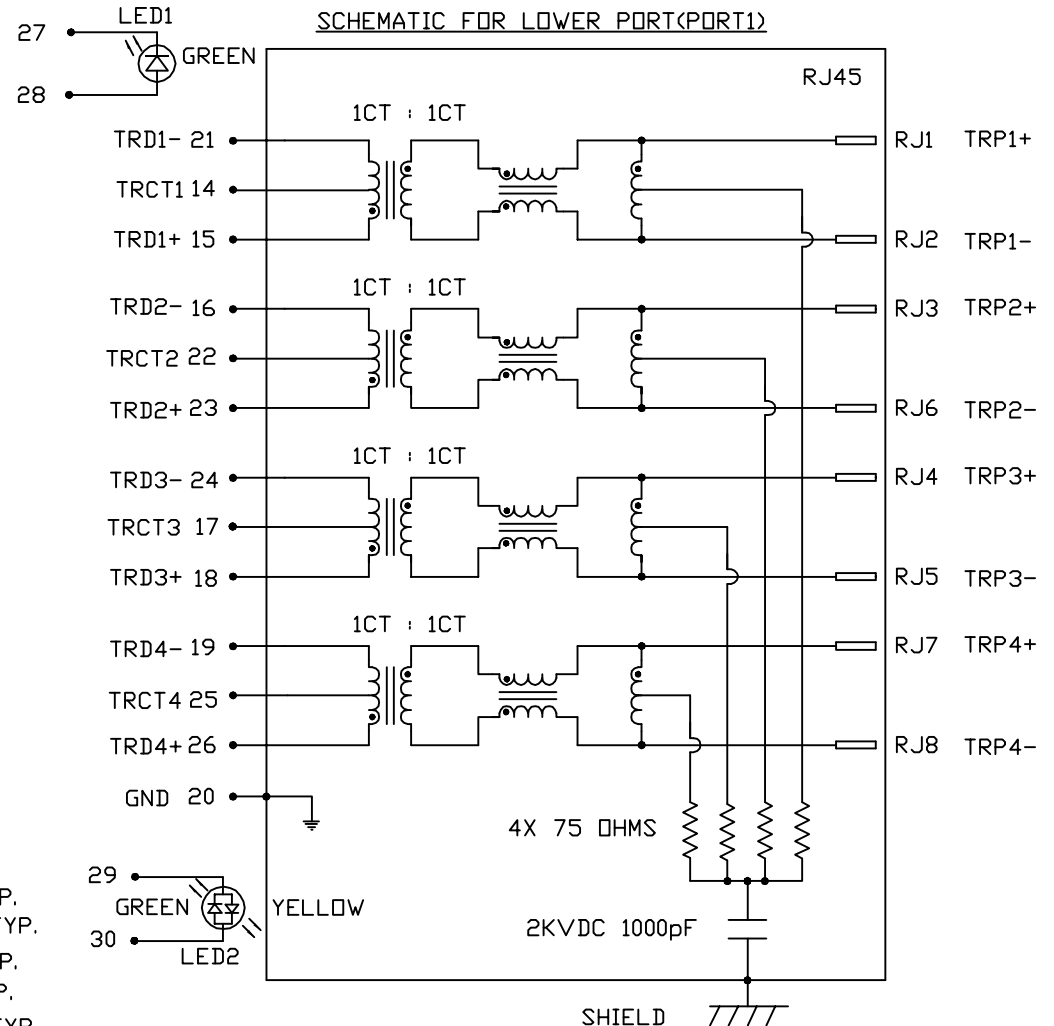
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max
---	--------------

LED 1

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

LED 2

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	565nm TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	590nm TYP.



DRWN	DATE
CHUN	08-22-04
CHKD	DATE
CHUNG	08-22-04

TITLE
2X1 gigabit MagJack™ (with LED)

PART NO. / DRAWING NO.
0845-2S1T-E4
FILE NAME
08452S1TE4PB.DWG

STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4
	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.

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

PRELIMINARY

ELECTRICAL CHARACTERISTICS @ 25°C

URNS 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)

1500 Vrms

LEAKAGE INDUCTANCE

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

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)	20pF Max @ 1MHz
----------------------------	-----------------

DC RESISTANCE

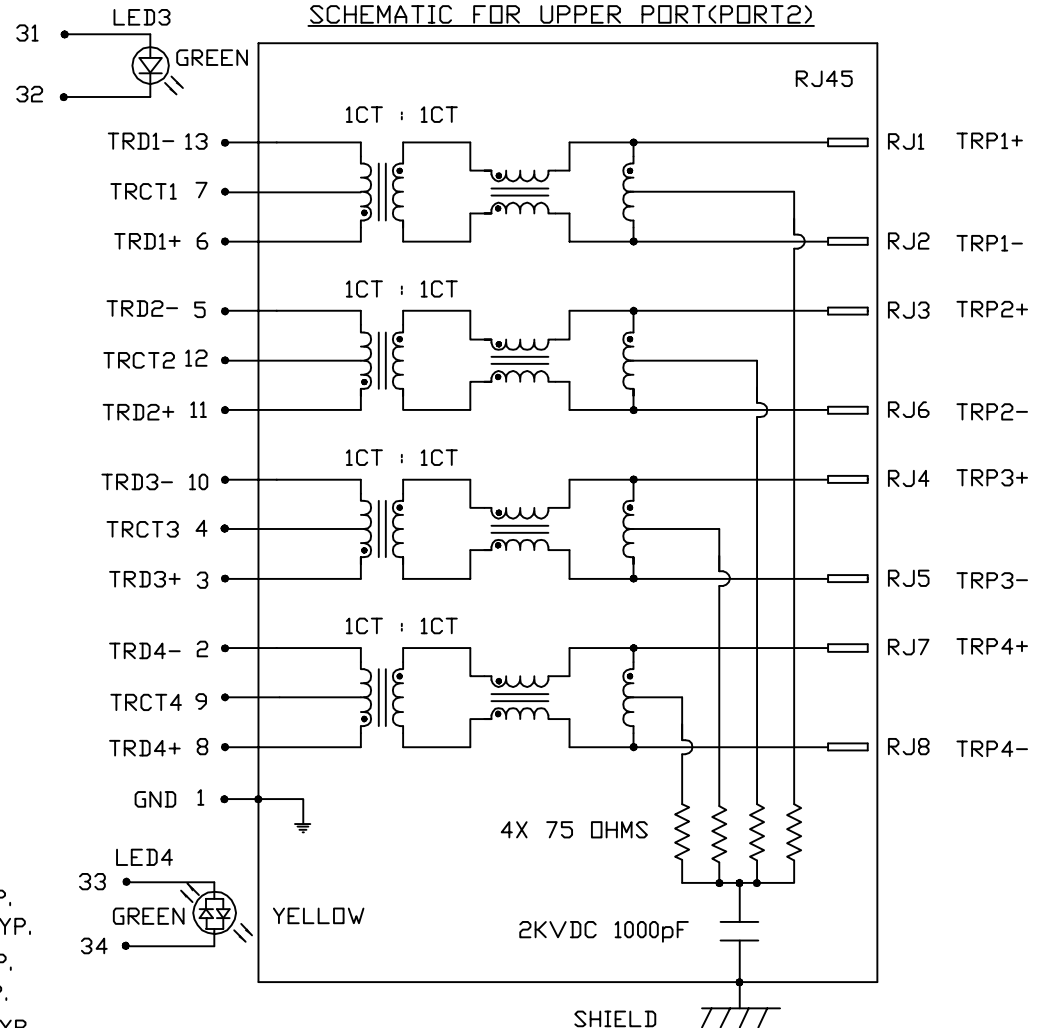
(13-6)=(5-11)=(10-3)=(2-8)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max

LED 3

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

LED 4

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	2.1V TYP.
	IF=20mA	GREEN	565nm TYP.
	IF=20mA	YELLOW	590nm TYP.



DRWN	DATE
CHUN	08-22-04
CHKD	DATE
CHUNG	08-22-04

TITLE
2X1 gigabit MagJack™ (with LED)

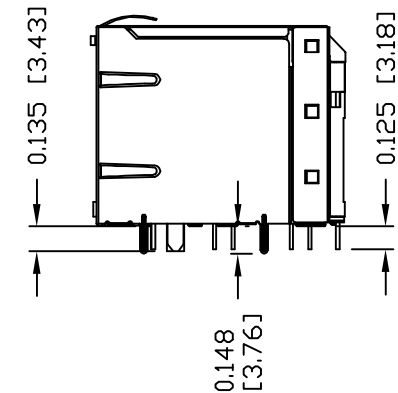
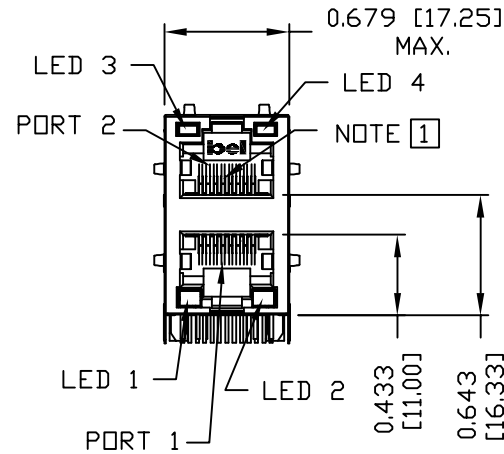
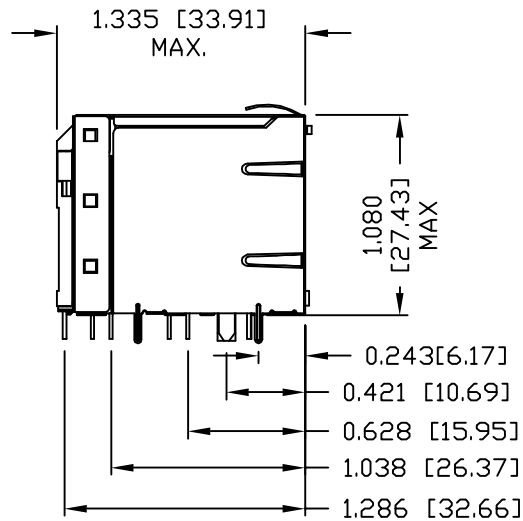
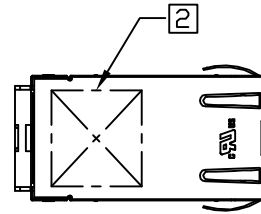
PART NO. / DRAWING NO.
0845-2S1T-E4
FILE NAME
08452S1TE4PB.DWG

STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	REV. : PB
	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.

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 COPPER ALLOY.
 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.

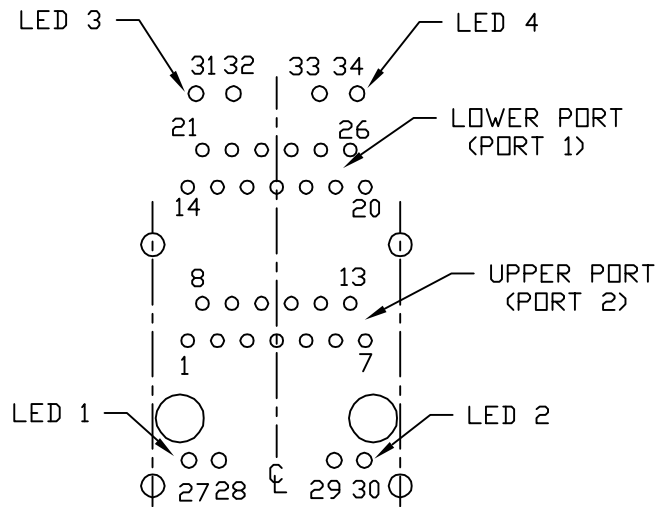
UL RECOGNIZED - FILE #E196366 AND E169987.

DRWN	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	TOL. IN INCH	[] METRIC DIM. AS REFERENCE	REV. : PB	
QIN	08-22-04	2X1 gigabit MagJack™ (with LED)	0845-2S1T-E4	.X		UNIT : INCH [mm]	SIZE : A4	
CHKD	DATE		FILE NAME	.XX		SCALE : N/A	PAGE : 4	
BAO/KEUNG	08-22-04		08452S1TE4PB.DWG	.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.

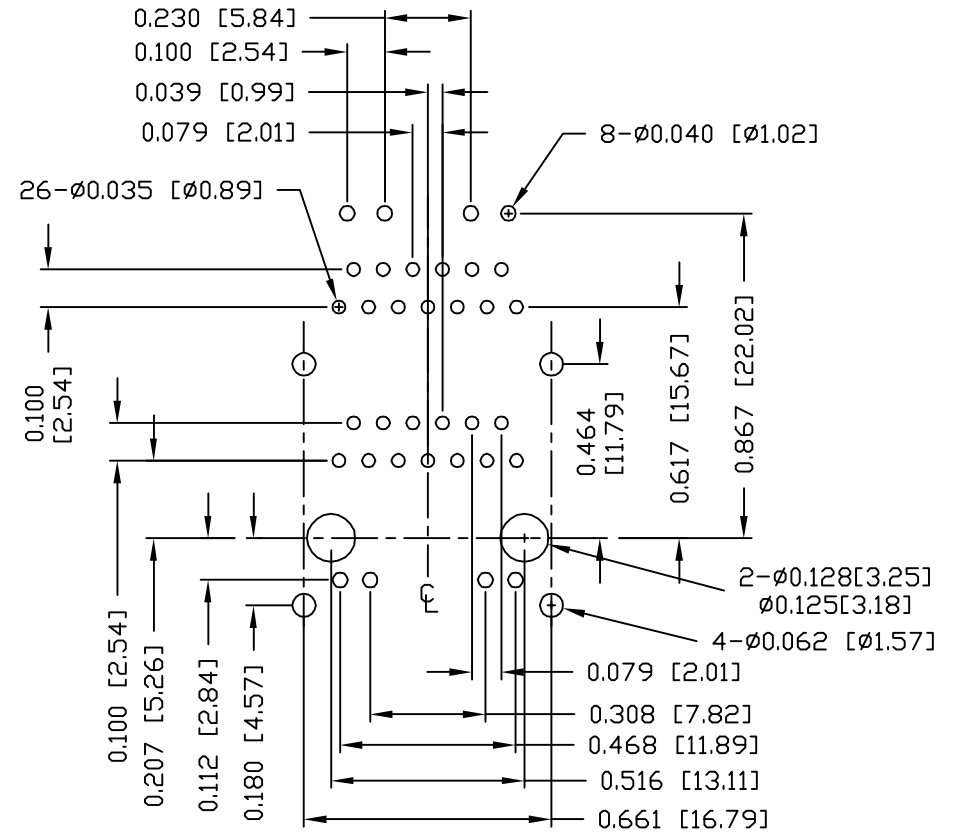
PRELIMINARY

LED CONFIGURATION



PIN-OUT INFORMATION

(COMPONENT SIDE VIEW)
(SCALE 2:1)



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

DRWN	DATE	08-22-04
QIN		
CHKD	DATE	08-22-04
BAO/KEUNG		

TITLE	2X1 gigabit MagJack™ (with LED)
-------	------------------------------------

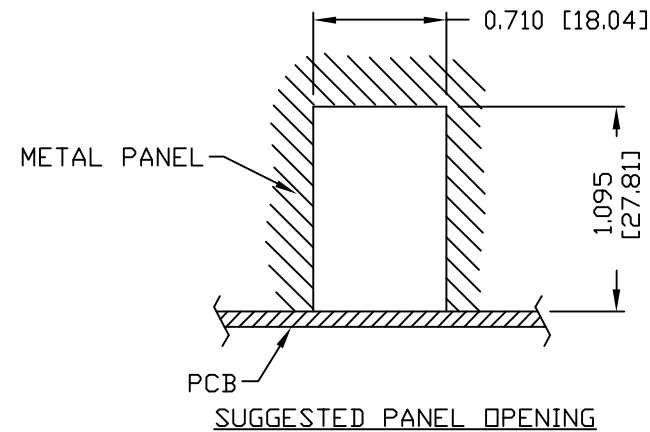
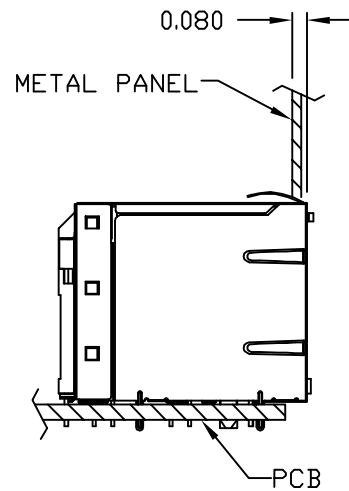
PART NO. / DRAWING NO.	0845-2S1T-E4
FILE NAME	08452S1TE4PB.DWG

STANDARD DIM.	TOL. IN INCH	[] METRIC DIM. AS REFERENCE	UNIT : INCH [mm]	REV. : PB
.X				
.XX			SCALE : N/A	SIZE : A4
.XXX	±0.010			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



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)

DRWN	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
				TOL. IN INCH		UNIT : INCH [mm]	REV. : PB	
QIN	08-22-04	2X1 gigabit MagJack™ (with LED)	0845-2S1T-E4	.X		SCALE : N/A	SIZE : A4	
CHKD	DATE			.XX			PAGE : 6	
BAO/KEUNG	08-22-04			.XXX	±0.005			