

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



#### Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







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 1 POLARITY
 LED 2 POLARITY

 PIN 27 PIN 28 COLOR PIN 29 PIN 30 COLOR

 + - YELLOW + - GREEN

PRELIMINARY



ORIGINATED BY DATE TITLE	PART NO	D. / DRAWING NO.	STANDARD DIM. [ ] METRIC DIM. AS REFERENCE	Е
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.		SHIELD 7777	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.			
\lambda \DDMINANT WAVELENGTH>	TL —COMB IFFFF # 2301111 11127	30 • LED2	TOOODL SKADC —	
VF (FORWARD VOLTAGE)	IF=20mA YELLOW 2.1V TYP. IF=20mA YELLOW 590nm TYP.	GREEN (\$)	1000pF 2KVDC	
LED 1	TE-20-A VELLEN/ 24/ TVD	29 •	└ <del></del>	
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8	) 1.2 ohms Max		TA / 3 LI II 3	
(21-15)=(16-23)=(24-18)=(19-26)	1,2 ohms Max	GND 20 •		
DC RESISTANCE		GND 20 •	_	
PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz	TRD4+26 •	——— <del>————</del> —————————————————————————————	RJ8 TRP4-
INTERWINDING CAPACITANCE		TRCT4 25 •	] \{ \_\\\ \	
PRIMARY W/ SECONDARY SHORTED	0.3uH Max. @ 1MHz		3  & <u>~~~~</u>	
LEAKAGE INDUCTANCE		TRD4-19 •		RJ7 TRP4+
HIPOT (Isolation Voltage):	1500 Vrms		1CT : 1CT	
60MHz - 100MHz	-25 dB TYP	TRD3+ 18 •	——————————————————————————————————————	RJ5 TRP3-
1MHz - 60MHz	-35 dB TYP	INCIS II	] \{ \_\_ \ \	
CROSS TALK		TRCT3 17 •		
100kHz - 100MHz	-25 dB TYP	TRD3-24 •		RJ4 TRP3+
CM TO CM REJ			1CT : 1CT	
80MHz-100MHz	-12 dB	TRD2+23 •		RJ6 TRP2-
60MHz-80MHz	-14 dB		3  \xam_ \ \_\\\	
30MHz-60MHz	-16 dB	TRCT2 22 •		
1MHz-30MHz	-18 dB	TRD2- 16 •		RJ3 TRP2+
RET. LOSS (MIN)	TIT AT LILLY		1CT : 1CT	
INS. LOSS 100KHz TO 100MHz	-1.1 dB MAX	TRD1+ 15 •		RJ2 TRP1-
8mA DC BIAS	350 uH MIN.		3  \\	
□CL @ 100kHz,100m∨RMS	OEO JULIMINI	TRCT1 14 •		
TP4	1CT : 1CT ±2%	TRD1- 21 •		RJ1 TRP1+
TP3	1CT : 1CT ±2%	28 •	1CT : 1CT	
TP1 TP2	1CT : 1CT ±2% 1CT : 1CT ±2%	YELLOW (\$)	RJ45	
TURNS RATIO	1CT . 1CT +0%	27	<u> </u>	_
ELECTRICAL CHARACTERISTICS @ 25°C		LED 1	SCHEMATIC FOR LOWER PORT(PORT1)	
+	- YELLOW + - GF	REEN		

ORIGINATED BY	DATE
CHUNG	12-27-05
DRAWN BY	DATE

2X1 gigabit MagJack®
(with LED)

0845-2D1T-E4

FILE NAME

08452D1TE4PC.DWG

STANDARD DIM.
TOL. IN INCH
.X
.XX

.XXX

UNIT: INCH [mm] REV.: PC

SCALE: N/A SIZE: A4

PAGE: 2



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LED 3 POLARITY			LED 4 POLARITY			
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR	
+	+ - YELLOW +		ı	GREEN		

# PRELIMINARY

SCHEMATIC FOR UPPER PORT(PORT2)

4X 75 OHMS

1000pF 2KVDC

1CT : 1CT

1CT : 1CT

1CT : 1CT

1CT : 1CT

RoHS 2002/95/EC

RJ2

RJ3

RJ6

RJ4

RJ7

RJ8

<del>-> ----</del>| RJ5

TRP1+

TRP1-

TRP2+

TRP2-

TRP3+

TRP3-

TRP4+

TRP4-

RJ45

WRITTEN APPROVAL OF BEL FUSE INC.	PIN 31   PIN 32   CULUR   PIN 33   PIN 34	CULUR
ELECTRICAL CHARACTERISTICS @ 25°C	+	GREEN
TURNS RATIO		31 <del>- LED3</del>
TP1	1CT : 1CT ±2%	YELLOW (\$)
TP2	1CT : 1CT ±2%	32 •
TP3	1CT : 1CT ±2%	
TP4	1CT : 1CT ±2%	TRD1− 13 • + +
□CL @ 100kHz,100mVRMS	OFO II MIN	TRCT1 7 •
8mA DC BIAS	350 uH MIN.	
INS. LOSS	4.4 (5) (4)	TRD1+ 6 •
100KHz TO 100MHz	-1.1 dB MAX	
RET. LOSS (MIN)		TRD2- 5 •
1MHz-30MHz	-18 dB	
30MHz-60MHz	-16 dB	TRCT2 12 • -
60MHz-80MHz	-14 dB	TDD0 - 11 -
80MHz-100MHz	-12 dB	TRD2+ 11 •
CM TO CM REJ		
100kHz - 100MHz	-25 dB TYP	TRD3- 10 •
CROSS TALK	OF ID TVD	TRCT3 4 •
1MHz - 60MHz	-35 dB TYP	IKC13 1 -
60MHz - 100MHz	-25 dB TYP	TRD3+ 3 •
HIPOT (Isolation Voltage):	1500 Vrms	
LEAKAGE INDUCTANCE		TRD4- 2 •
PRIMARY W/ SECONDARY SHORTED	0.3uH Max. @ 1MHz	TKD
INTERWINDING CAPACITANCE		TRCT4 9 •
PER CHANNEL (PRI, TO SEC.)	50pF Max @ 1MHz	TRD4+ 8 •
DC RESISTANCE	оор: 11d.7 С 11112	1 KU4+ O •
(13-6)=(5-11)=(10-3)=(2-8)	1.2 ohms Max	GND 1 •
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7		
LED 3 (Super bright)	7-RJ8) 1,2 ohms Max	LED4
VF (FORWARD VOLTAGE)	IF=20mA YELLOW 2.1V TYP.	33 •
λD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 590nm TY	P. GREEN (文)
LED 4 (Super bright)		34 •——— ` `
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.	
λD (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP	· .

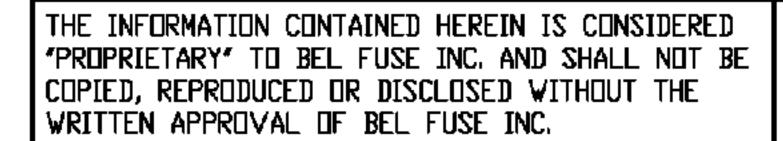
5nr	n TYP.			SHIELD ///	7		
PART NO. / DRAWING NO.		STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE			
	0845-2D1T-E4	TOL. IN INCH		UNIT : INCH [mm]	REV. : PC		
	FILE NAME	.XX		SCALE: N/A	SIZE: A4		
	08452D1TE4PC.DWG	.XXX		<b>⊕</b> ———	PAGE: 3		



ORIGINATED BY	DATE
CHUNG	12-27-05
DRAWN BY	DATE

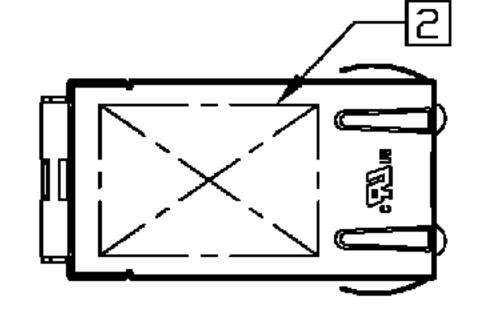
2X1 gigabit MagJack® (with LED)

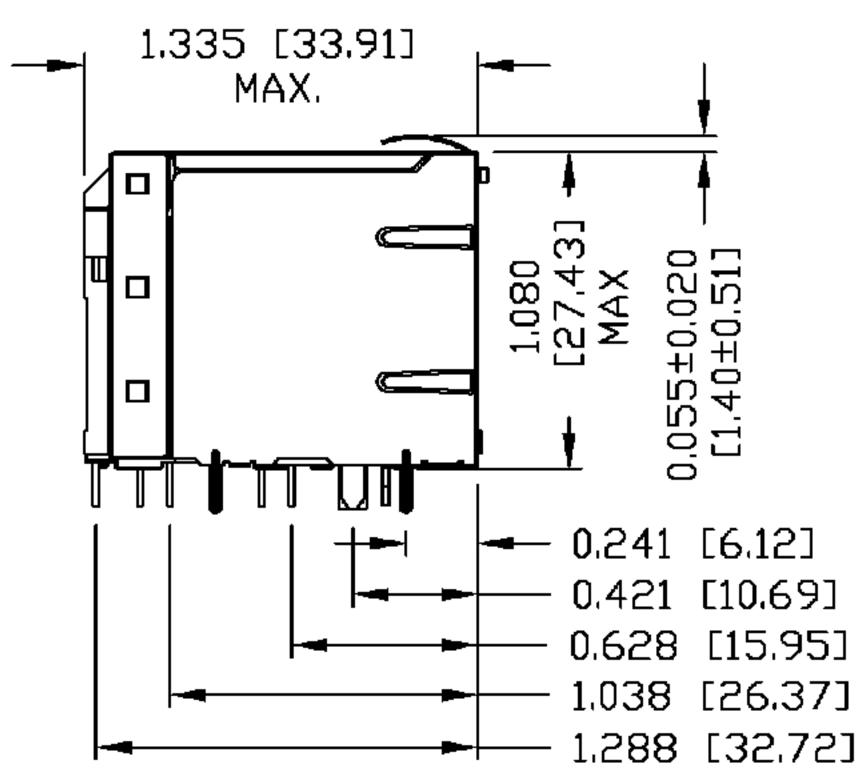
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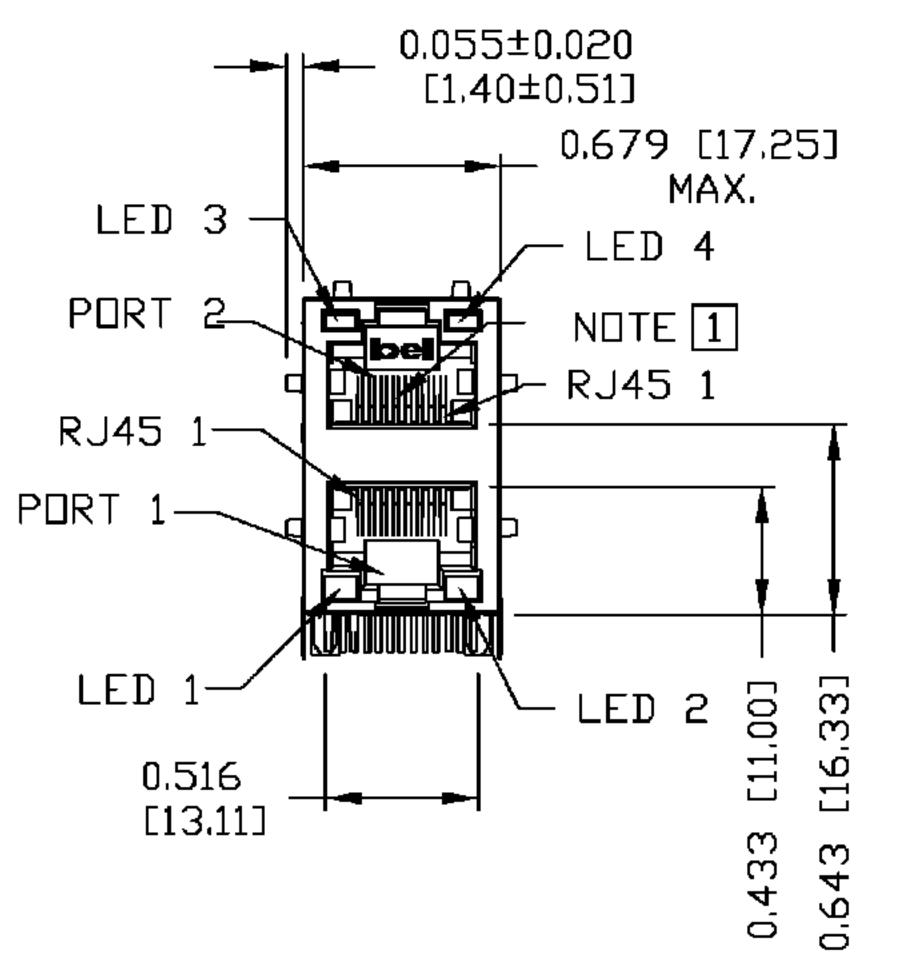


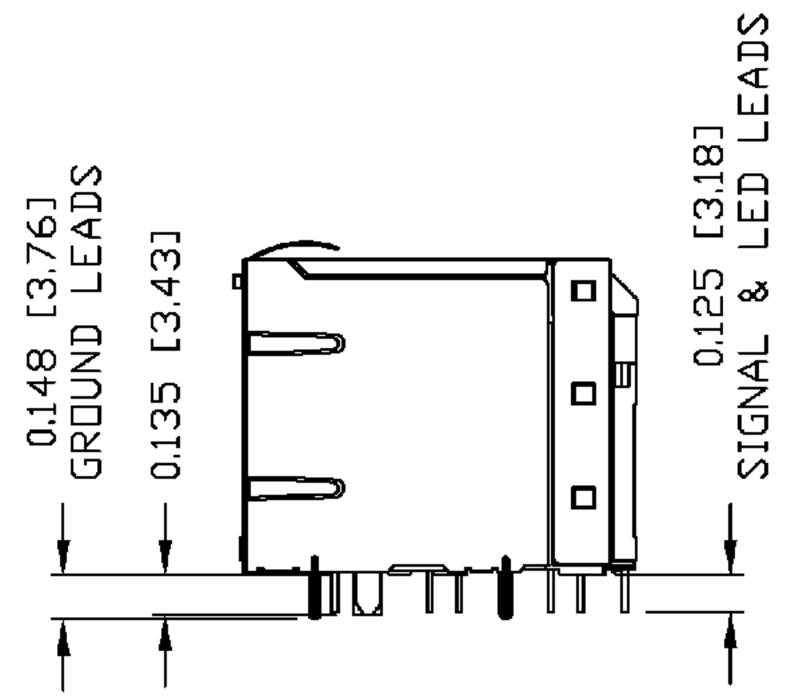
PRELIMINARY











NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT

FLAMMABILITY RATING UL 94V-0

CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING

DUTPUT 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.

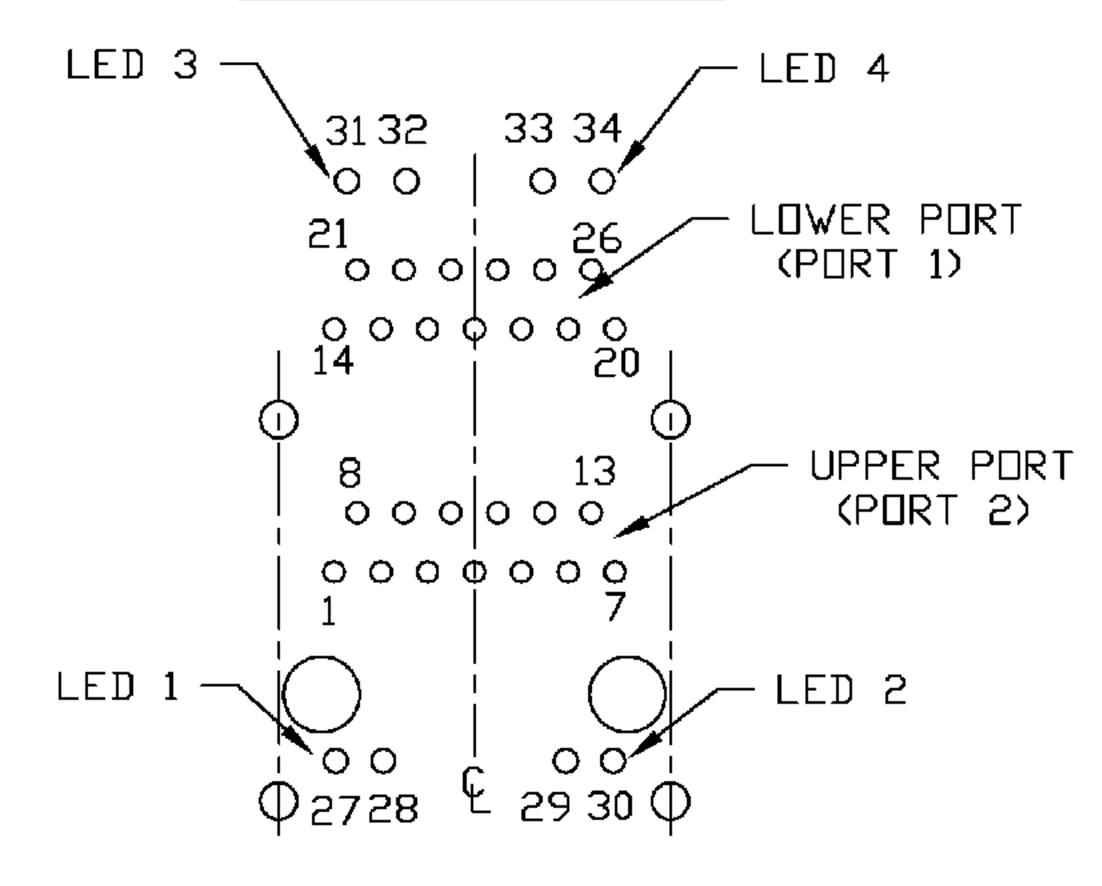
• Tus UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFEREN	CE
BILL\KEUNG	12-27-05	2X1 gigabit MagJack®	0845-2D1T-E4	TOL. IN INCH	UNIT: INCH [mm] REV.: F	PC
DRAWN BY	DATE	(with LED)	FILE NAME	.XX	SCALE: N/A SIZE: A	A4
QIN	12-27-05		08452D1TE4PC.DWG	.XXX ±0.010	PAGE:	4

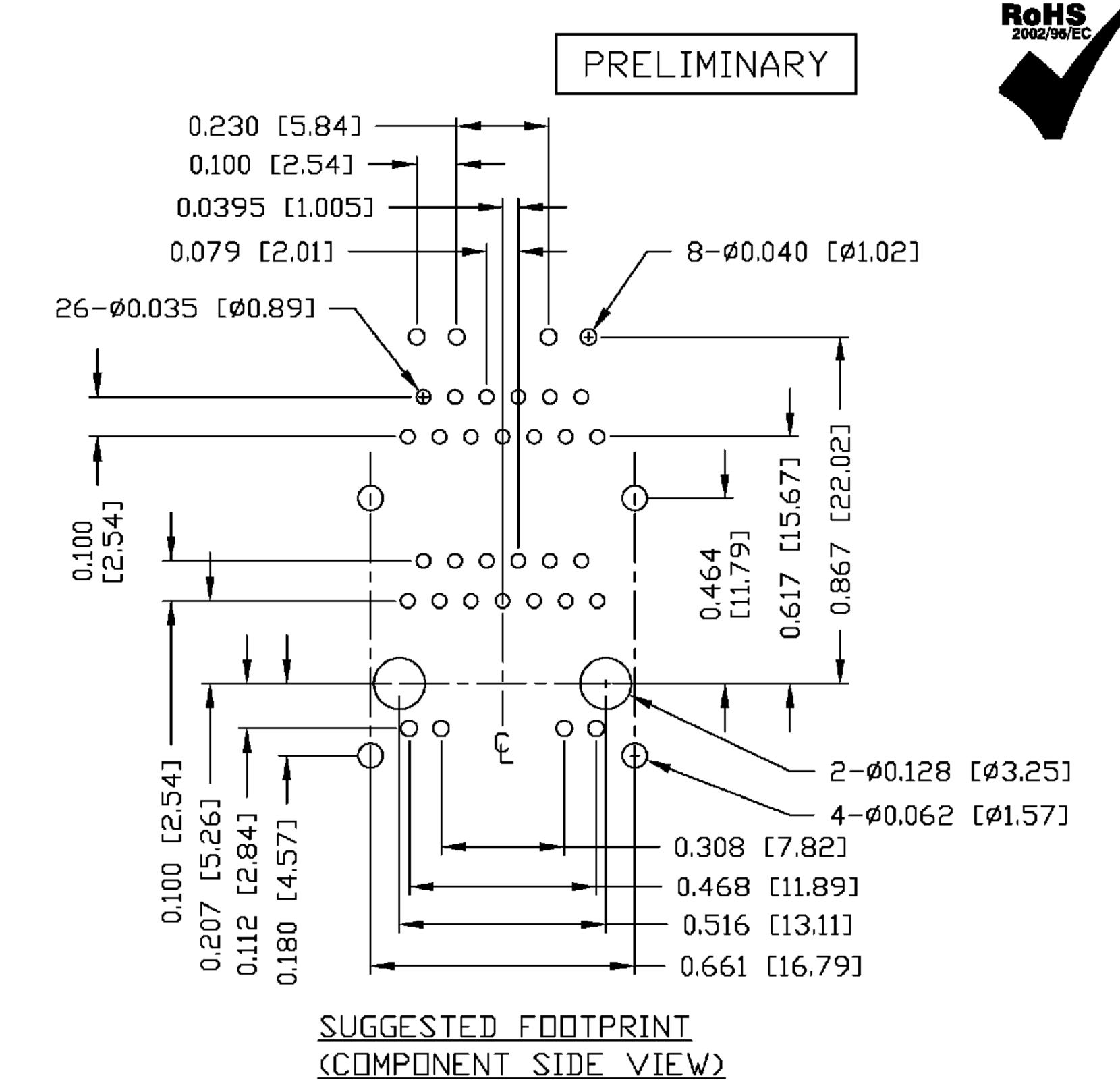


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### LED CONFIGURATION



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



(SCALE 2:1)

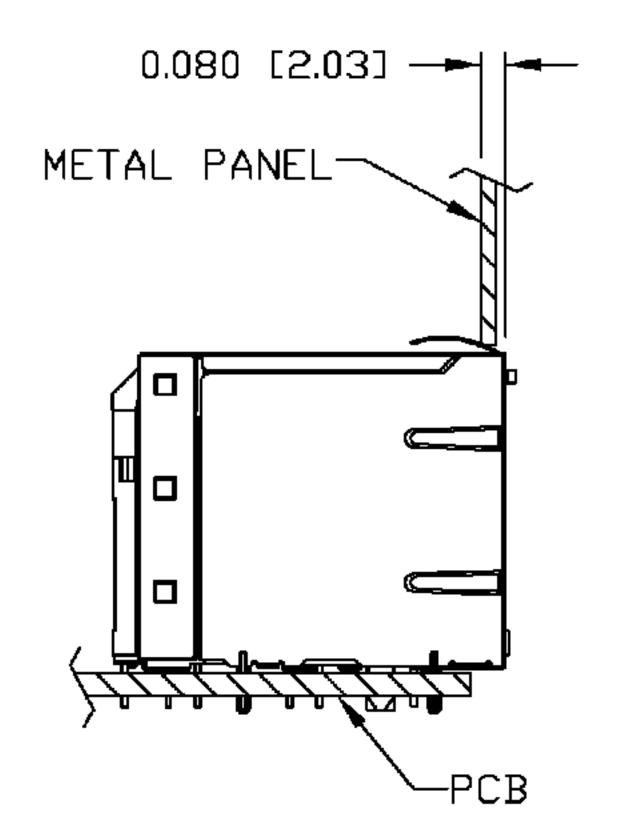
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD	D DIM.	[ ] METRIC DIM. AS	REFERENCE	$\prod$
BILL\KEUNG	12-27-05	2X1 gigabit MagJack®	0845-2D1T-E4	TOL. IN	INCH	UNIT: INCH [mm]	REV. : PC	]
DRAWN BY	DATE	(with LED)	FILE NAME	.X .XX	$\overline{}$	SCALE: N/A	SIZE: A4	] ,
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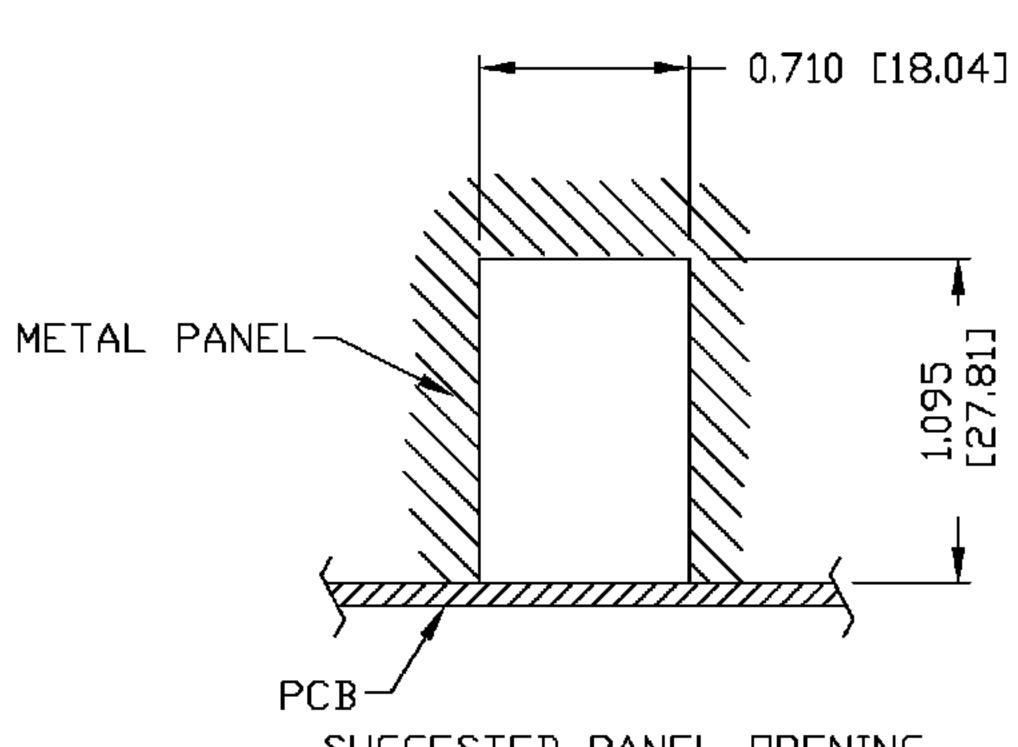


## PRELIMINARY



COMPONENTS FOR A





# 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-H5 (TOP)

0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GDDDS 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	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC DIM. AS	REFERENCE	Γ.
BILL\KEUNG	12-27-05	2X1 gigabit MagJack®	0845-2D1T-E4	TOL. I	N INCH	UNIT : INCH [mm]	REV. : PC	
DRAWN BY	DATE	(with LED)	FILE NAME	.XX		SCALE: N/A	SIZE: A4	c
QIN	12-27-05		08452D1TE4PC.DWG	.XXX	±0.004	<b>⊕</b>	PAGE: 6	
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