

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!



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LED1 POLARITY			LED2 POLARITY			
PIN 11	PIN 12	COLOR	PIN 13	PIN 14	COLOR	
-	+	□RANGE	+	-	GREEN	
+	-	GREEN				



	+ - GREEN	LED1		
ELECTRICAL CHARACTERIST	ICS @ 25°C	11 •	SCHEMATIC	•
TURNS RATIO		DRANGE ( GREEN		RJ45
TP1 TP2 TP3 TP4	1CT : 1CT ±3% 1CT : 1CT ±3% 1CT : 1CT ±3% 1CT : 1CT ±3%	12 • PIN TRD1+ 1 •	1CT : 1CT	1 TRP1+
□CL @ 100kHz/100mVRMS	101 101 13%	TRD1- 2 ←	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 TRP1-
8mA DC BIAS	350%H MIN.		1CT : 1CT	
DC RESISTANCE:		TRD2+ 3 <b>←</b>		3 TRP2+
(RJ1–RJ2);(RJ3–RJ6) (RJ4–RJ5);(RJ7–RJ8) INS. LOSS	1.2 ohms Max. 1.2 ohms Max.	TRD2- 6 <b>←</b>	# 0.1ur	6 TRP2-
1MHz TO 100MHz RET. LOSS (MIN)	-1.1 dB MAX	TRD3+ 4 •─	1CT : 1CT	4 TRP3+
1MHz-40MHz 60MHz-100MHz	-18 dB -12+20LOG(f/80MHz) dB	TRD3- 5 •─		5 TRP3-
CROSS TALK: 1MHz - 100MHz	-35 dB MIN	TRD4+ 7 •─	1CT : 1CT	7 TRP4+
CM TO CM REJ 1MHz - 100MHz HIPOT (Isolation Voltage):	−35 dB MIN 1500 ∨rms	TRD4- 8 •─		8 TRP4-
100% OF PRODUCTION TESTEI IEEE 802.3 ISOLATION REQU	) TO COMPLY WITH	TRDCT1/2/3/4 9 ←		
LED 1 VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.  ORANGE 2.0V TYP.	GND 10 <b>←</b>	4X 75 DHMS } } }	
人D (DOMINANT WAVELENGTH)		LED2	1000pF 2kV +	
LED 2		GREEN (♥) '	SHIELD 77/7	
VF (FORWARD VOLTAGE) 人D (DOMINANT WAVELENGTH)	IF=20mA GREEN 2.2V TYP. IF=20mA GREEN 565nm TYP.	PIN		

ORIGINATED BY	DATE		
ORIGINATED BY CHOW WANCHUNG	05-06-10		
DRAWN BY Li yongfeng	DATE		

Gigabit MagJack® (WITH LED) PATENTED

TITLE

PART NO. / DRAWING NO.
SI-61031-F
FILE NAME
SI-61031-F\_A.DWG

STANDARD DIM.
TOL. IN INCH

UNIT: INCH [mm] REV.: A

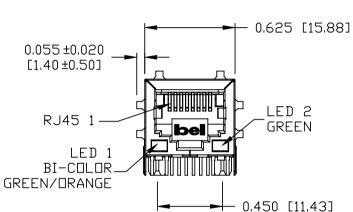
SCALE: N/A SIZE: A4

PAGE: 2









c Dus

NOTES: PLASTIC HOUSING: THERMOPLASTIC PBT

FLAMMABILITY RATING UL 94V-0

CONTACTS PLATING: 50 MICRO-INCH HARD GOLD PLATING

PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.

(ALL GROUND LEADS ARE SOLDER DIPPED)

- 1 MARK PART WITH MFG PART NUMBER(SI-61031-F), DATE CODE AND PATENTED.
- 2 MARK PART WITH MFG LOGO, MFG NAME.
- 3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS
- 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S PAT. 5,736,910 AND U.S. PAT. 7,123,117 AND U.S. PAT. 6,840,817.
- 5. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

c Nus UL RECOGNIZED - FILE #E132408.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS RI	EFERENCE
BILL CHEN	05-06-10	Gigabit MagJack®	SI-61031-F	TOL. IN INCH	UNIT : INCH [mm] RE	<b>5</b> V. : A
DRAWN BY	DATE	(WITH LED) PATENTED	FILE NAME	X .XX	SCALE: N/A SI	ZE: A4
SALLY LUD	05-06-10	FAIENIED	SI-61031-F_A.DWG	.XXX ±0.010		AGE: 3



.020 501

수 수

0,055:

0.840 [21.34]

2

0.125 C GROUND

0.125 SIGNAL

540 [13,72]

0

0.160 [4.06] -

0.425 [10.80]

0.120 [3.05] -

0.250 [6.35]

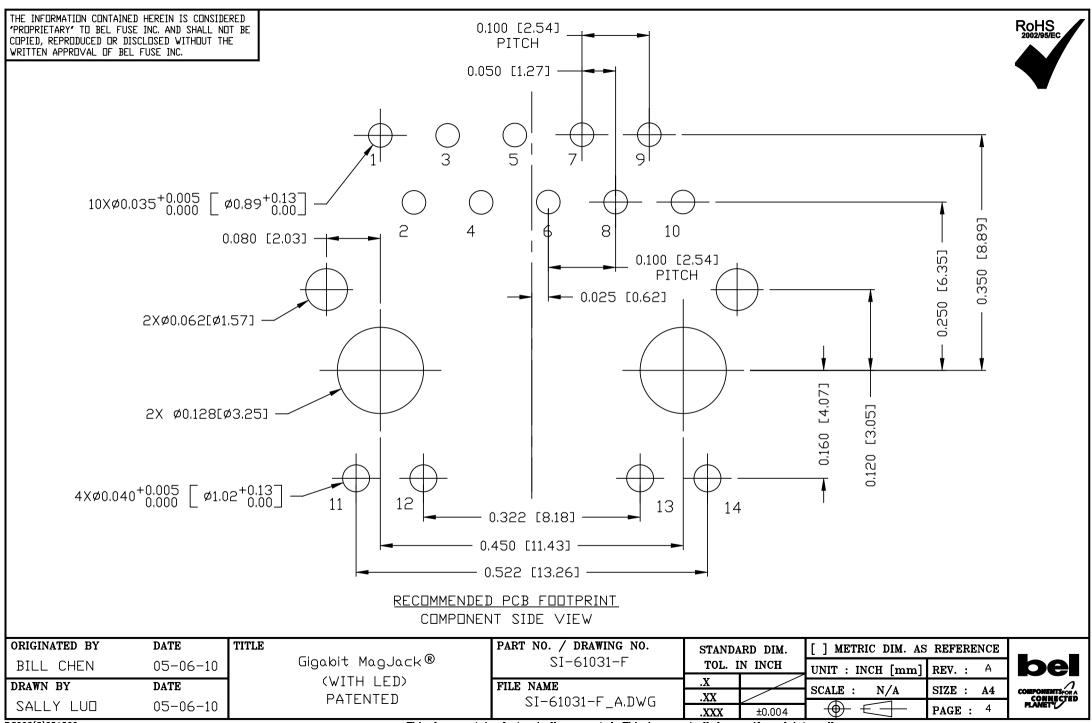
0,350 [8,89]

[0,51]

020

Ö

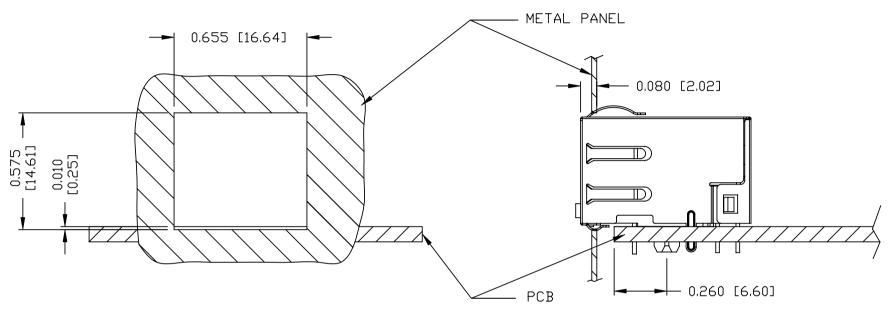
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## SUGGESTED PANEL OPENING





## NOTES:

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-Q7 (TOP)

0200-9999-Q8 (BOTTOM)

PACKING QUANTITY: 80 PCS FINISHED GOODS PER TRAY

10 TRAYS (800 PCS FINISHED GOODS) PER CARTON BOX

NOTE: CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX

(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

		T	T	1	•
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFERENCE
BILL CHEN	05-06-10	Gigabit MagJack®	SI-61031-F	TOL. IN INCH	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE	(WITH LED)	FILE NAME	.X	SCALE: N/A SIZE: A4
	05-06-10	PATENTED	ST (1021 F A D)/C	.XX	
SALLY LUD	02-06-10		SI-61031-F_A.DWG	.XXX ±0.004	PAGE: 5

