THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE **RoHS** LED POLARITY COPIED, REPRODUCED OR DISCLOSED WITHOUT THE LED WRITTEN APPROVAL OF BEL FUSE INC. PIN 12 PIN 11 COLOR 11 • GREEN GREEN DRANGE DRANGE SCHEMATIC ELECTRICAL CHARACTERISTICS @ 25°C 12 • **RJ45** TURNS RATIO 1CT : 1CT TP1 1CT : 1CT ±2% TRD1- 1 1 TRP1+ TP2 1CT : 1CT ±2% ww TP3 1CT : 1CT ±2% TP4 士0.1uF 1CT : 1CT ±2% 2 TRP1-TRD1+ 2 DCL @ 100kHz/100mVRMS 1CT : 1CT 8mA DC BIAS 350µH MIN. TRD2- 3 3 TRP2+ INS. LOSS بللك 0.1MHz TO 1MHz -1.1 dB MAX +0.1uF = 1MHz TO 65MHz -0.5 dB MAX 6 TRP2-TRD2+ 4 65MHz TO 100MHz -0.8 dB MAX -1.2 dB MAX 100MHz TO 125MHz 1CT : 1CT TRD3- 5 4 TRP3+ RET, LOSS (MIN) 0.5MHz - 40MHz-18 dB士0.1uF = 40MHz-100MHz $-12+20L\Box G(f/80MHz) dB$ TRD3+ 6 5 TRP3-CM TO CM REJ 1CT : 1CT 100kHz - 100MHz -30 dB MIN TRD4- 7 • 7 TRP4+ CM TO DM REJ ±0.1uF 100kHz - 100MHz -35 dB MIN 8 TRP4-TRD4+ 8 HIPOT (Isolation Voltage): 1500 Vrms or 2250VDC 100% OF PRODUCT TESTED IN PRODUCTION 4X 75 DHMS TRDCT1/2/3/4 9 • TO COMPLY WITH IEEE 802,3 ISOLATION REQUIREMENTS I F D GND 10 ◆ 1000pF 2kV VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. DRANGE 2.0V TYP. SHIELD 7/// AD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP. DRANGE 610nm TYP. TITLE PART NO. / DRAWING NO. [] METRIC DIM. AS REFERENCE

ORIGINATED BY	DATE
CHOW WANCHUNG	2012-08-20
DRAWN BY	DATE
TAN QIGUANG	2012-08-20

2X4 gigabit MagJack® (8 Cores, with LED) 0863-2X4R-54-F PATENTED

STANDARD DIM. 08632X4R54-F TOL. IN INCH UNIT: INCH [mm] REV. : B .X FILE NAME SCALE: N/A .XX 08632X4R54-F B.DWG .XXX



SIZE: A4

PAGE:

THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE **RoHS** COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. 2 c Tabus EADS LED FOR UPPER PORT LED 1 & 2 BI-COLOR GREEN/ORANGE 1.220 [30.99] [3,18] LED LE 2,330 [59,18] 0.150 [3.81] GROUND LEADS PORT 2 -0.125 SIGNAL & LED FOR LOWER PORT PORT 8 - RJ45 1 RJ45 1 PURT 1 PORT 7 → 0.055±0.020 [1.40±0.51] - 0.245 [6.22] 0.425 [10.80] 2,100 [53,34] -0.185 [4.70] NOTES: PLASTIC HOUSING: THERMOPLASTIC AT FLAMMABILITY RATING UL 94V-0 CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT. TIN-COATED COPPER WIRE, DIA 0.018 INCH. **DUTPUT PINS**: METAL SHIELD: NICKEL PLATED ON COPPER ALLOY. (ALL GROUND LEADS ARE SOLDER DIPPED)

1 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

2. MARK PART WITH MFG LOGO MFG, NAME, PART NUMBER, DATE CODE AND PATENTED.

c Nus Ul RECOGNIZED - FILE #E196366 AND E169987.

3. THE PRODUCT IS ROHS COMPLIANT.

ORIGINATED BY		TITLE 2X4	gigabit MagJack®	PART NO. / DRAWING NO.	STANDA	RD DIM.	[] METRIC DIM. AS	REFERENCE	I
ANTON LIAO	2012-08-20		Cores, with LED)	08632X4R54-F	TOL. I	N INCH	UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE	08	363-2X4R-54-F	FILE NAME	.X		SCALE: N/A	SIZE: A4	1
HE ZHEN	2012-08-20		PATENTED	08632X4R54-F_B.DWG	.XXX	±0.010	—	PAGE: 3	1
DC002(2)081111			This document is	electronically generated. This is a controlled	copy if use	d internally			



→ 0.550 [13.97] TYPICAL

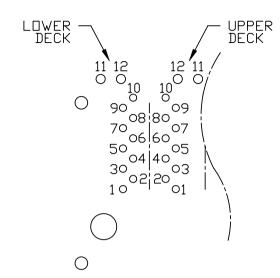
4. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE

U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817

AND U.S. PAT. 7,123,117.

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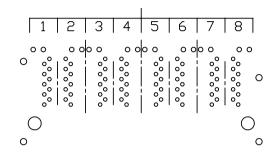


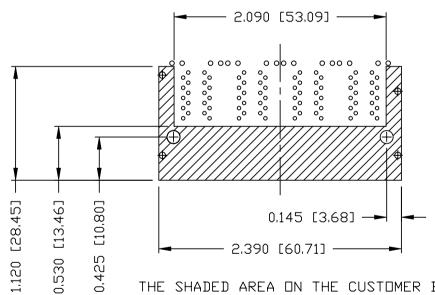
PIN-OUT INFORMATION (COMPONENT SIDE VIEW)

12	GRN (+)/ORG (-)
11	GRN (-)/ORG (+)
10	GND
9	TRDCT1/2/3/4
8	TRD 4+
7	TRD 4-
6	TRD 3+
5	TRD 3-
4	TRD 2+
3	TRD 2-
2	TRD 1+
1	TRD 1-

TITLE

PORT ASSIGNMENT (COMPONENT SIDE VIEW)





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

ORIGINATED BY	DATE
ANTON LIAO	2012-08-20
DDAWN DW	D.400
DRAWN BY	DATE

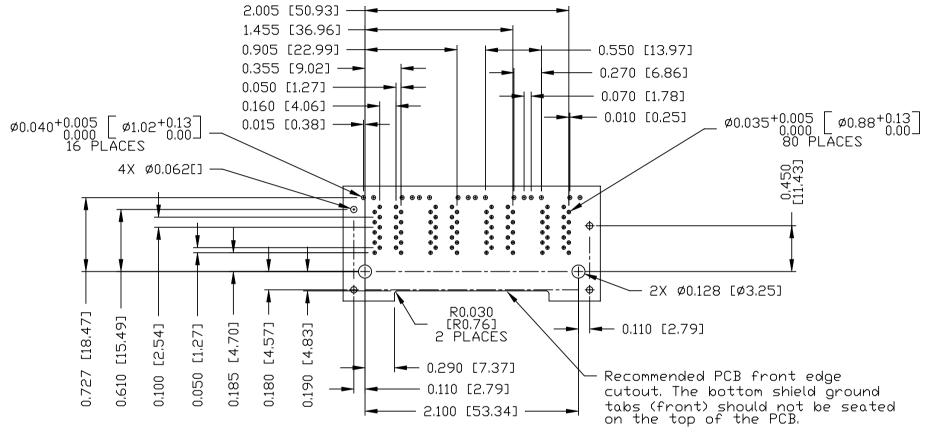
2X4 gigabit MagJack®
(8 Cores, with LED)
0863-2X4R-54-F
PATENTED

08632X4R54-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS UNIT: INCH [mm]	
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SUGGESTED FOOTPRINT (COMPONENT SIDE VIEW)

DADE NO / DDARFING NO

ORIGINATED BY ANTON LIAO	DATE 2012-08-20	TITLE
drawn by He zhen	DATE 2012-08-20	

2X4 gigabit MagJack® (8 Cores, with LED) 0863-2X4R-54-F PATENTED

08632X4R54-F	STANDARD DIM. TOL. IN INCH		
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08632X4R54-F B.DWG	.XX		
0003EX4K34 1 _D.D.W.G	.XXX	±0.004	

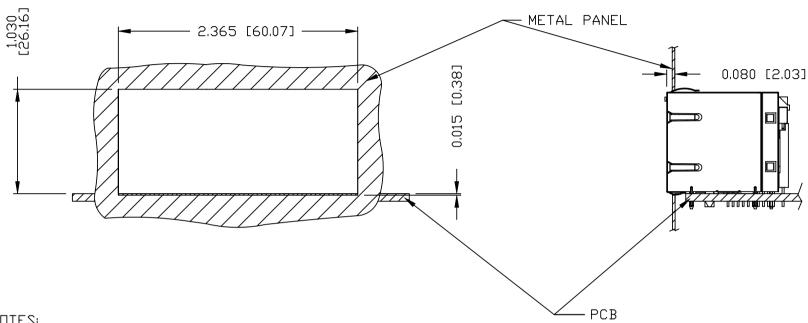
[] METRIC DIM. AS REFERENCE					
UNIT : INCH [mm]	REV. : B				
SCALE: N/A	SIZE: A4				
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SUGGESTED PANEL OPENING





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

OR PACKING TRAY: 0200-9999-E7 (TOP)

0200-9999-E8 (BOTTOM)

PACKING QUANTITY: 20 PCS FINISHED GOODS PER TRAY

7 TRAYS (140 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 ANTON LIAO	DATE 2012-08-20	TITLE 2X4 gigabit MagJack® (8 Cores, with LED)	PART NO. / DRAWING NO. 08632X4R54-F	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS UNIT : INCH [mm]	
DRAWN BY	DATE	0863-2X4R-54-F	FILE NAME	.X .XX	SCALE: N/A	SIZE: A4
HE ZHEN	2012-08-20	PATENTED	08632X4R54-F_B.DWG	.XXX ±0.004	●	PAGE: 6



Mouser Electronics

Authorized Distributor

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Bel:

0863-2X4R-54-F