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LED POLARITY					
PIN 11	PIN 12	COLOR			
_	+	GREEN			
+	1	DRANGE			



	_	+ GI	REEN	LED					
	+	- OR	RANGE 11 •	LED					
ELECTRICAL CHARACTERISTICS	<u> </u>			GREEN (A)	DRANGE		<u>SCHEMATIC</u>		
TURNS RATIO									RJ45
TP1	1CT : 1CT ±27	/ •	12 •				1CT : 1CT		
TP2	1CT : 1CT ±2%			TRD1- 1 •		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	101 101		1 TRP1+
TP3	1CT : 1CT ±2					_ <del>===</del>			
TP4	1CT : 1CT ±2%	,			0.1uF	<del></del>			0 7004
□CL @ 100kHz/100m∨RMS				TRD1+ 2 •	+ > - >			-	2 TRP1-
8mA DC BIAS	350µH MIN.			TDDO O			1CT : 1CT	L	O TDDO:
INS. LOSS				TRD2- 3 •-		<u> </u>			3 TRP2+
0.1MHz TO 1MHz	-1.1 dB MAX				<del>                                    </del>	<u> </u>	3		
1MHz TO 65MHz 65MHz TO 100MHz	-0.5 dB MAX -0.8 dB MAX			TRD2+ 4 •-	0.1uF		•"  `		6 TRP2-
100MHz TO 125MHz	-1.2 dB MAX			INDL! 4			107 107		O TRI E
RET. LOSS (MIN)	TIE OID THIN			TRD3- 5 •-	1 } _ }		1CT : 1CT		4 TRP3+
0.5MHz-40MHz	-18 dB					<u> </u>	ત્રાહિ		
40MHz-100MHz	-12+20L0G(f/	(80MHz) dB			0.1uF	_ <u>~~~</u>	3  5		
CM TO CM REJ				TRD3+ 6 •	+	_t.ex.x.yr		$\longrightarrow \longrightarrow -$	5 TRP3-
100kHz - 100MHz	-30 dB MIN						1CT : 1CT		
CM TO DM REJ	3 3 3 1 1 1 1 1			TRD4- 7 •-	+ > - > -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		$\rightarrow \rightarrow \leftarrow \mid$	7 TRP4+
100kHz - 100MHz	-35 dB MIN					<u> </u>		,	
HIPOT (Isolation Voltage):	1500 Vrms				0.1uF	<u></u>	<u> </u>		0 7004
100% OF PRODUCTION TESTE		<b>.</b> /TTH		TRD4+ 8 •-	17				8 TRP4-
IEEE 802.3 ISOLATION REQU		W I					•		
LED LED	311(21)211101		TRDCT1/	2/3/4 9 •	+	4	4X 75 DHMS	<b>\$                                    </b>	
VF (FORWARD VOLTAGE)	IF=20mA GREEN	2.2V TYP.					•		
	□RANGE	2.0V TYP.		GND 10 ←	+-		1000		
λD (D□MINANT WAVELENGTH)	IF=20mA GREEN	565nm TYF	>,				1000pF 2kV		
	DRANGE	610nm TYP							
OPERATING TEMPERATURE RANG	GE : -40°C TD :	35°C					SHIELI	7 <del>7/7</del>	

ORIGINA	TED BY	DATE	TITLE
CH□W	WANGCHUNG	11-03-10	
DRAWN	BY	DATE	
LEE W	/EIDE	11-03-10	

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

PART NO. / DRAWING NO.	
08632X4RAY-F	
FILE NAME	
08632X4RAY-F A.DWG	
00025V4K41_L _4'DMG	г

STANDARD DIM.

TOL. IN INCH

.XX

.XXX

UNIT: INCH [mm] REV.: A

SCALE: N/A SIZE: A4

PAGE: 2



THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. 2 EADS LED FOR UPPER PORT LED 1 & 2 BI-COLOR GREEN/ORANGE 1.220 [30.99] [3,18] LED LE 2.330 [59.18] PURT 5 0.125 SIGNAL & LED FOR LOWER PORT PORT 8 RJ45 1 RJ45 1 PURT PORT 7 0.245 [6.22] — 0.055±0.020 [1.40±0.51] 0.425 [10.80] 2,100 [53,34] NOTES: 0.185 [4.70] 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) 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 Nusul Recognized - file #E196366 And E169987.

3. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

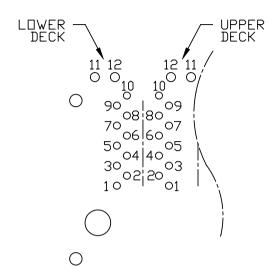
4. THE PRODUCT IS PATENTED PRODUCT. THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

0.550 [13.97] TYPICAL

ORIGINATED BY	DATE	TITLE 2X4 gigabit MagJack®	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC DIM. AS	REFERENCE	Ι.
CHEN BILL	11-03-10	(8 Cores, with LED)	08632X4RAY-F	TOL. I	IN INCH	UNIT : INCH [mm]	REV. : A	
DRAWN BY	DATE	Extended temperature  0863-2X4R-AY-F	FILE NAME	.xx		SCALE: N/A	SIZE: A4	1,
HE ZHEN	11-03-10	PATENTED	08632X4RAY-F_A.DWG	.XXX	±0.010	⊕€-	PAGE: 3	

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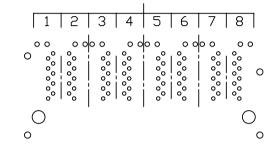


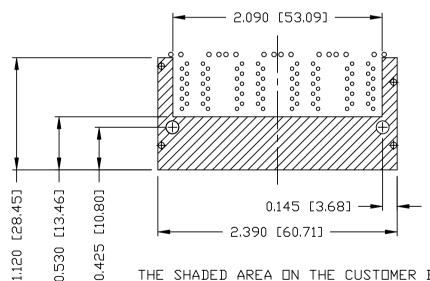


PIN-OUT INFORMATION (COMPONENT SIDE VIEW)

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-

## 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			
CHEN BILL	11-03-10			
DRAWN BY	DATE			

TITLE 2X4 gigabit MagJack®
(8 Cores, with LED)
Extended temperature
0863-2X4R-AY-F
PATENTED

PART NO. / DRAWING NO.
08632X4RAY-F
TOTAL DIABATE
FILE NAME  08632X4RAY-F_A.DWG

STANDA	[ ] METRIC				
TOL. I	N INCH	UNIT:	INC	H	
.X		SCALE		_	
.XX		SCALE	:	ľ	

±0.004

	[ ] METRIC DIM. AS	REFERENCE
	UNIT : INCH [mm]	REV. : A
	SCALE: N/A	SIZE: A4
1	<b>⊕</b> - <b>-</b>	PAGE: 4



THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. 0.550 [13.97] PITCH 2,005 [50,93] 1,455 [36,96] -0.905 [22.99] 0.070 [1.78] 0.355 [9.02] 0.480 [12.19] 0.050 [1.27] -0.280 [7.11] 0.160 [4.06] 0.015 [0.38] ĭĞ PLĀCES 4X Ø0.062 [Ø1.57] ~ 2X Ø0,128 [Ø3,25] R0.030 [R0.76] 2 PLACES 0,100 [2,54] PITCH [4,70] 577 - 0.110 [2.79] 0.050 [1.27] 0,610 [15,49] 0,290 [7,37] REF. [4 0.290 [7.37]  $\dot{\omega}$ Recommended PCB front edge .90 [4.8 REF. 0,180 0,727 0,185 cutout. The bottom shield ground 0.110 [2.79] tabs (front) should not be seated on the top of the PCB. 2.100 [53.34] SUGGESTED FOOTPRINT (COMPONENT SIDE VIEW) TITLE 2X4 gigabit MagJack® ORIGINATED BY DATE PART NO. / DRAWING NO. [ ] METRIC DIM. AS REFERENCE STANDARD DIM. CHEN BILL 11-03-10 08632X4RAY-F (8 Cores, with LED) TOL. IN INCH UNIT : INCH [mm] REV. : Extended temperature



N/A

PAGE:

SCALE:

08632X4RAY-F A.DWG

FILE NAME

0863-2X4R-AY-F

PATENTED

X.

.XX

.XXX

DRAWN BY

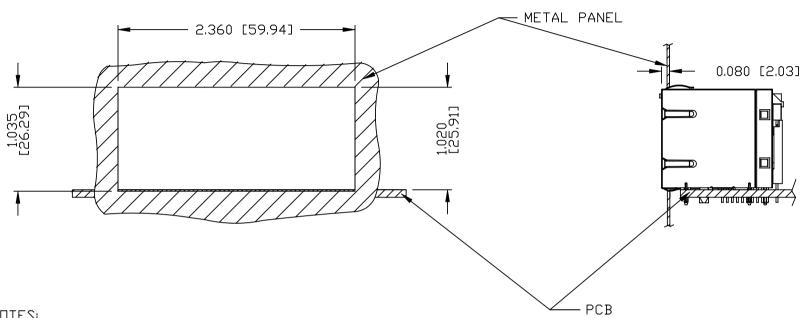
DATE

11-03-10

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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

DR PACKING TRAY : 0200-9999-E7 (TDP)

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 CHEN BILL	<b>DATE</b> 11-03-10	(8 Cores, with LED)	PART NO. / DRAWING NO. 08632X4RAY-F	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS UNIT: INCH [mm]	
<b>DRAWN BY</b> HE ZHEN	<b>DATE</b> 11-03-10	Extended temperature 0863-2X4R-AY-F PATENTED	FILE NAME 08632X4RAY-F_A.DWG	.XX .XX ±0.004		SIZE : A4 PAGE : 6

