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 17	PIN 18	COLOR	PIN 19	PIN 20	COLOR
−	+	YELLOW	+	−	ORANGE
			−	+	GREEN

RoHS

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

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

OCL @ 100kHz/100mVRMS (4CHANNEL)

11mA DC BIAS	350µH MIN.

Compliant to IEEE 802.3at specification

INS. LOSS

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.8 dB MAX
65MHz TO 100MHz	-1.0 dB MAX
100MHz TO 125MHz	-1.2 dB MAX

RET. LOSS (MIN)

0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(f/80MHz) dB

CM TO CM REJ

100kHz - 100MHz	-30 dB MIN

CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
HIPOT (Isolation Voltage):	2250 VDC

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS

BALANCED DC LINE CURRENT 720 mA MAX. @ 57 VDC CONTINUOUS
1.2 A MAX. @ 57 VDC FOR 200 MILLISECONDS

LED 1

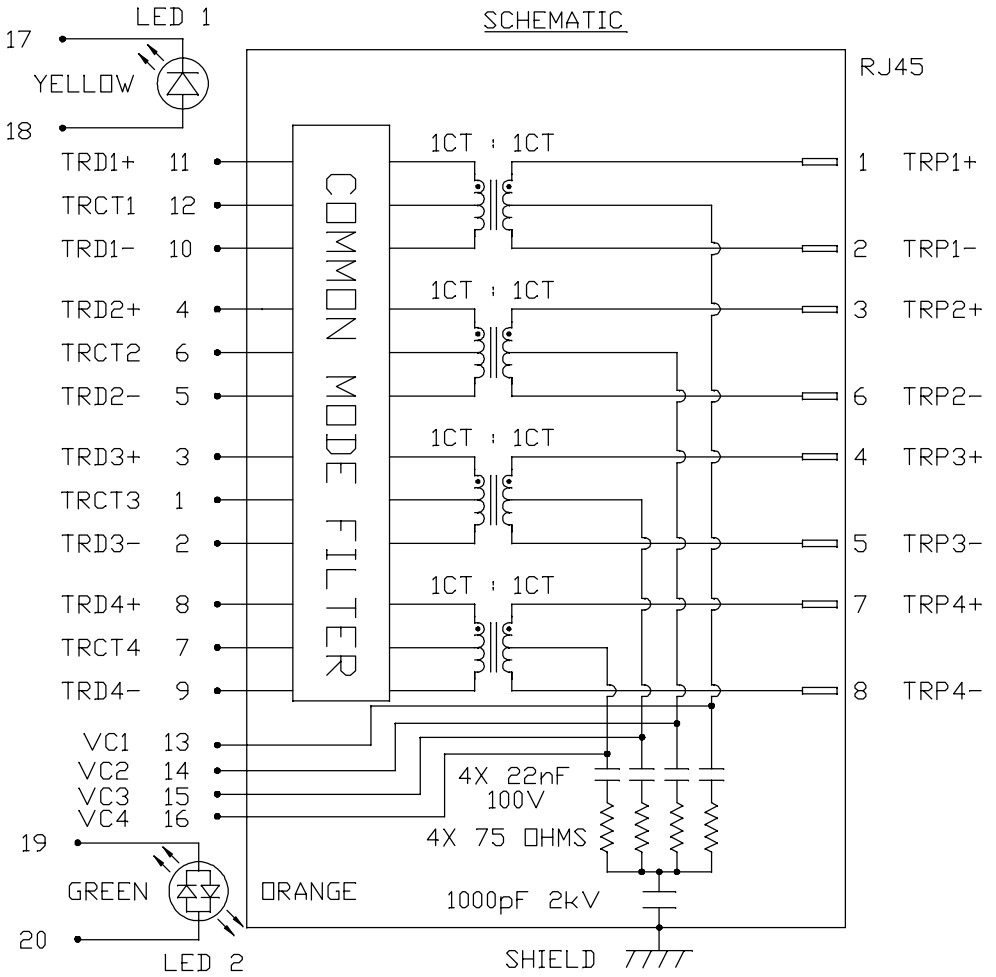
VF (FORWARD VOLTAGE)	IF=20mA	YELLOW 2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW 590nm TYP.

LED 2

VF (FORWARD VOLTAGE)	IF=20mA	GREEN 2.2V TYP.
		ORANGE 2.0V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN 570nm TYP.
		ORANGE 610nm TYP.

OPERATING TEMPERATURE: -40°C TO 85°C

SCHEMATIC



REV. : D | PAGE : 2

ORIGINATED BY: CHOW WANCHUNG DATE: 2016-08-11	TITLE: gigabit MagJack® (PoEp, Extended Temperature) 0826-1X1T-GH-F PATENTED	PART NO. / DRAWING NO.: 08261X1TGH-F FILE NAME: 08261X1TGH-F_D.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY: SKY YOU DATE: 2016-08-11				

bel MAGNETIC SOLUTIONS a bel group

This document is electronically generated. This is a controlled copy if used internally

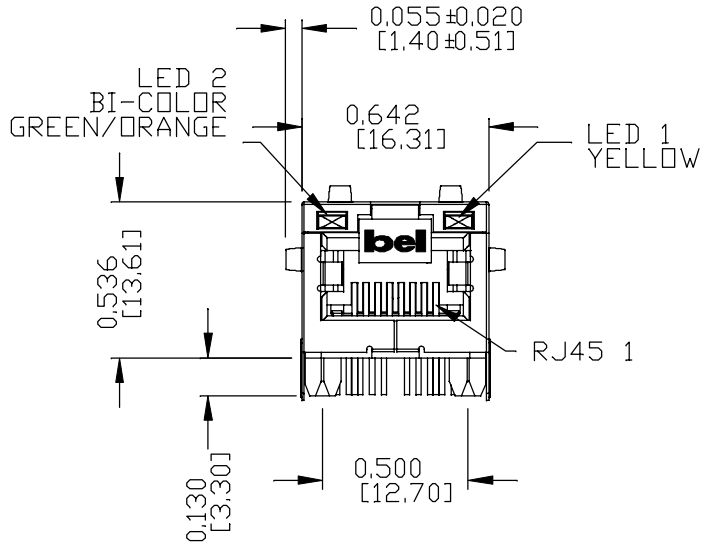
Downloaded from Arrow.com.

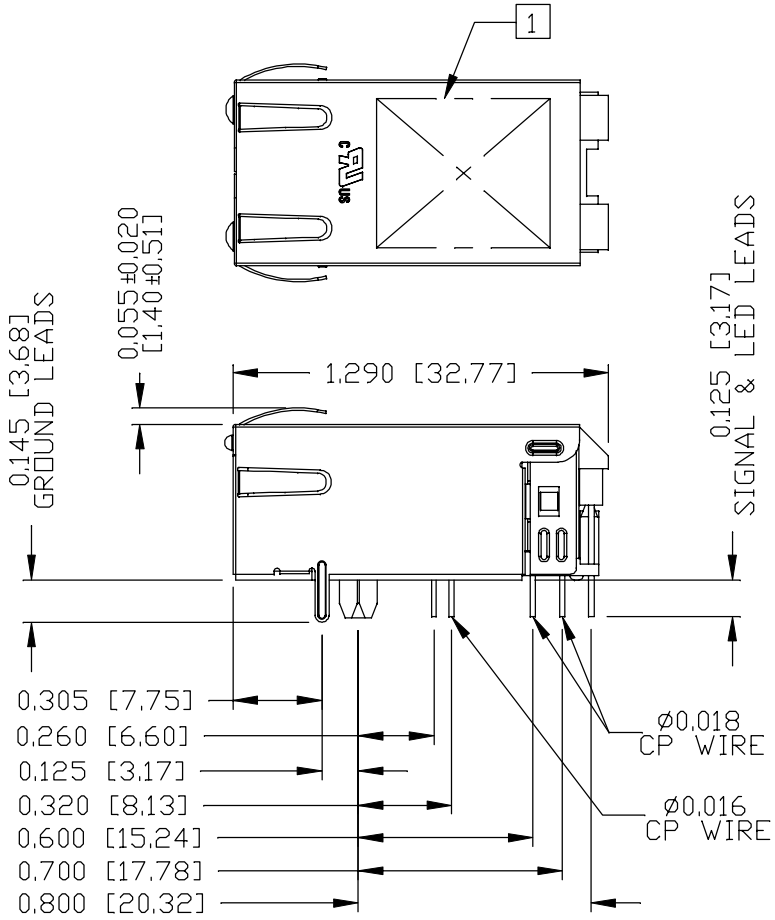
Please read our datasheet & drawing disclaimer here.

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.

MECHANICAL SPECIFICATION

RoHS





NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
30 MICRO-INCH MIN NICKEL UNDERPLATE.

OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.016 AND DIA 0.018 INCH.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

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

c UL us UL RECOGNIZED - FILE #E196366 AND E169987.

2. THE PRODUCT IS RoHS COMPLIANT.

3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

4. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 7,123,117.

5. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

ORIGINATED BY ANTON LIAO DATE 2016-08-11	TITLE gigabit MagJack® (PoEp, Extended Temperature) 0826-1X1T-GH-F PATENTED	PART NO. / DRAWING NO. 08261X1TGH-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.010 [ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY JESSE LI DATE 2016-08-11		FILE NAME 08261X1TGH-F_D.DWG	

bel MAGNETIC SOLUTIONS
a bel group

This document is electronically generated. This is a controlled copy if used internally

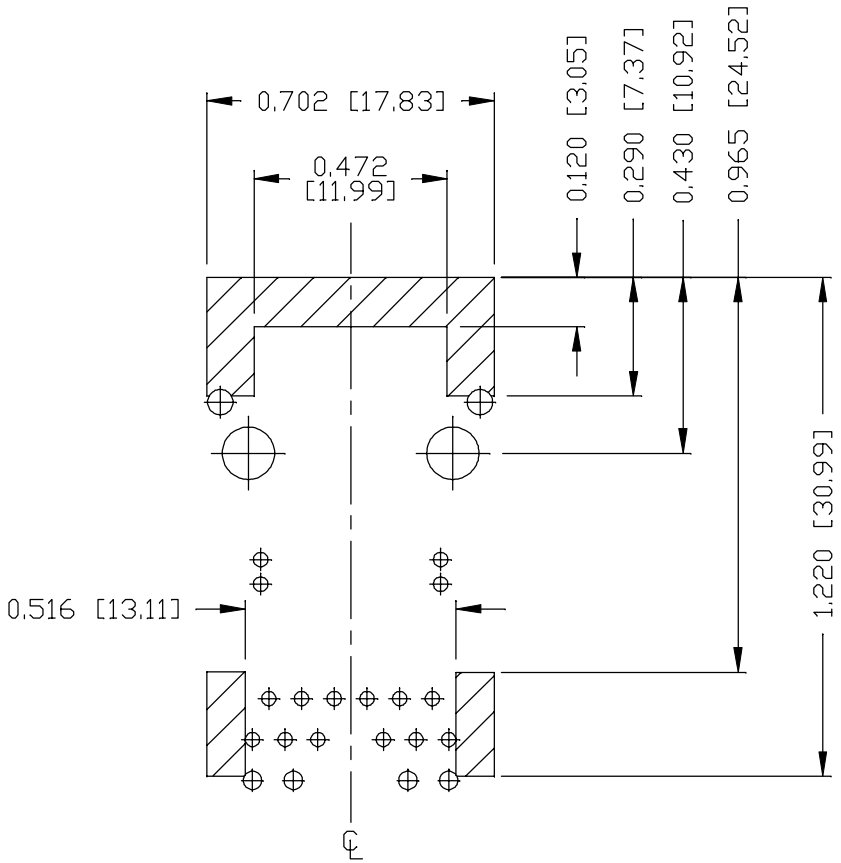
Downloaded from Arrow.com.

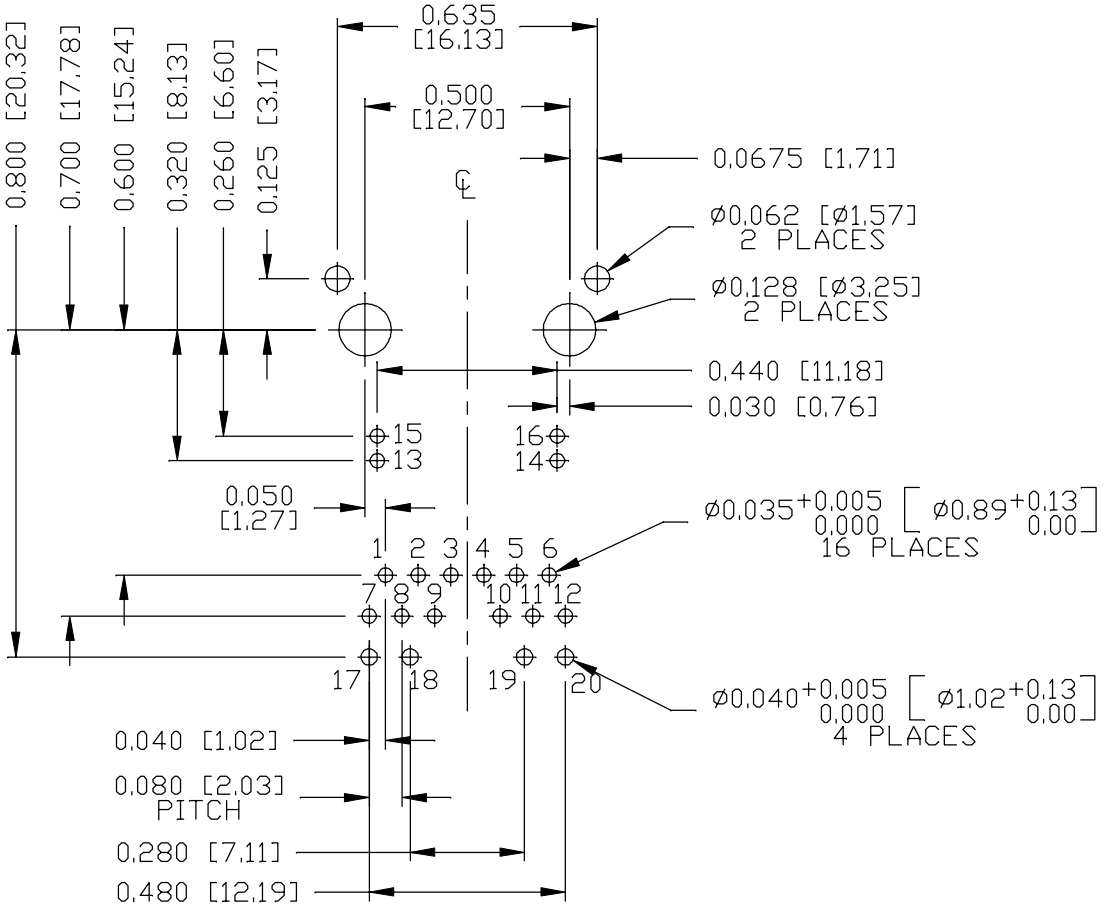
THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS

RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW





NOTES

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

REV. : D | PAGE : 4

ORIGINATED BY ANTON LIAO DATE 2016-08-11	TITLE gigabit MagJack® (PoEp, Extended Temperature) 0826-1X1T-GH-F PATENTED	PART NO. / DRAWING NO. 08261X1TGH-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.004	[ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY JESSE LI DATE 2016-08-11		FILE NAME 08261X1TGH-F_D.DWG		

bel MAGNETIC SOLUTIONS
a bel group

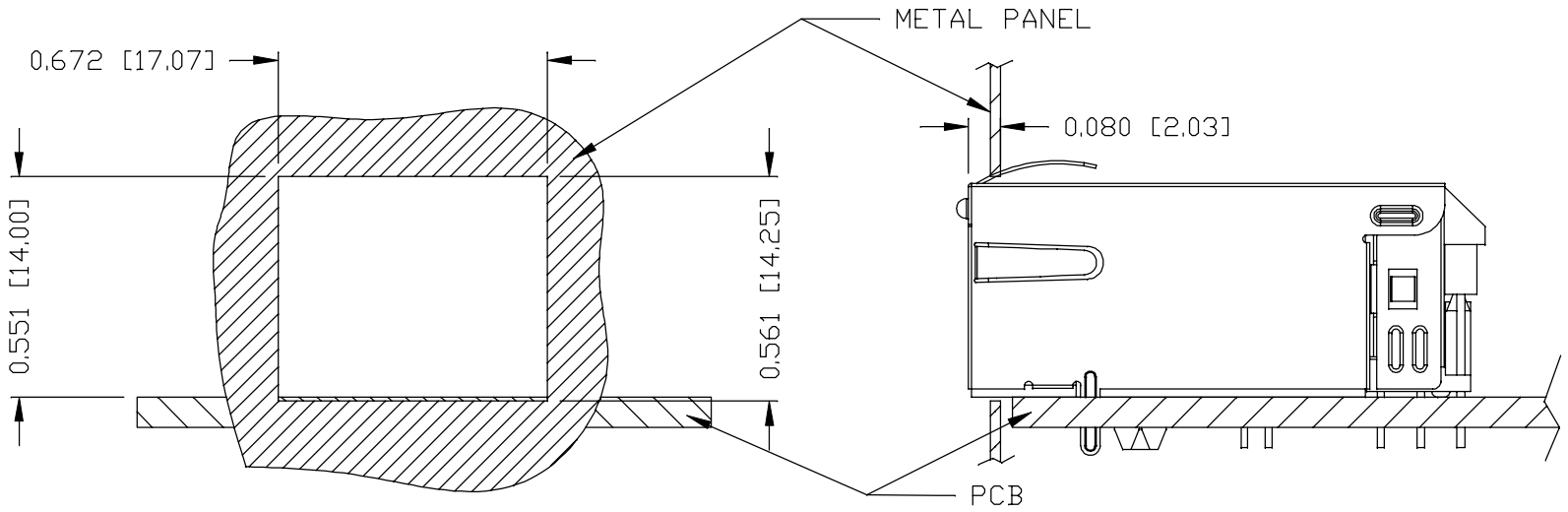
This document is electronically generated. This is a controlled copy if used internally

Downloaded from Arrow.com.

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.

RoHS

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-F6 (TOP)
0200-9999-F7 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY
10 TRAYS (400 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

REV. : D	PAGE : 5

ORIGINATED BY ANTON LIAO DATE 2016-08-11	TITLE gigabit MagJack® (PoEp, Extended Temperature) 0826-1X1T-GH-F PATENTED	PART NO. / DRAWING NO. 08261X1TGH-F	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY JESSE LI DATE 2016-08-11		FILE NAME 08261X1TGH-F_D.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

This document is electronically generated. This is a controlled copy if used internally

Downloaded from Arrow.com.