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PRELIMINARY

RoHS



LED1 POLARITY			LED2 POLARITY			
PIN 13	PIN 14	COLOR	PIN 15	PIN 16	PIN 17	COLOR
-	+	YELLOW	-	+	-	ORANGE
				+	-	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

OCL @ 100kHz/100mVRMS

8mA DC BIAS

350μH MIN.

INS. LOSS

0.1MHz TO 1MHz

-1.1 dB MAX

1MHz TO 65MHz

-0.5 dB MAX

65MHz TO 100MHz

-0.8 dB MAX

100MHz TO 125MHz

-1.2 dB MAX

RET. LOSS (MIN) @ 100 OHMS +/-15%

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):

1500 Vrms

100% OF PRODUCTION TESTED TO COMPLY

WITH IEEE 802.3 ISOLATION REQUIREMENT

OPERATING TEMPERATURE:

-40°C TO 100°C

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.

λD (DOMINANT WAVELENGTH)

IF=20mA ORANGE 2.0V TYP.

λD (DOMINANT WAVELENGTH)

IF=20mA GREEN 570nm TYP.

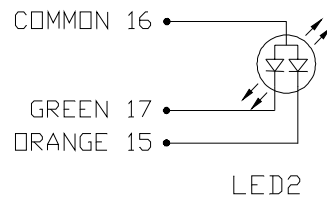
λD (DOMINANT WAVELENGTH)

IF=20mA ORANGE 605nm TYP.

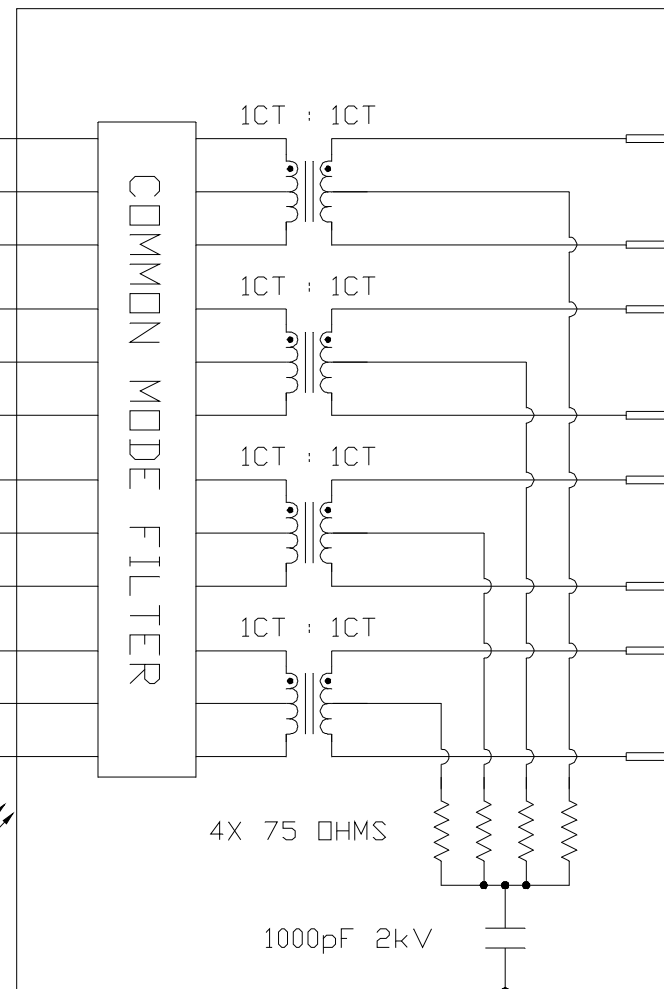
PIN
LED1



TRD1+ 11
TRCT1 12
TRD1- 10
TRD2+ 4
TRCT2 6
TRD2- 5
TRD3+ 3
TRCT3 1
TRD3- 2
TRD4+ 8
TRCT4 7
TRD4- 9



SCHEMATIC



SHIELD 7777

RJ45

1 TRP1+
2 TRP1-
3 TRP2+
6 TRP2-
4 TRP3+
5 TRP3-
7 TRP4+
8 TRP4-

ORIGINATED BY
CHOW WANCHUNG
DATE 2017-09-28

DRAWN BY
XIE YIMING
DATE 2017-09-28

TITLE
Gigabit MagJack®
(Ultra Low Profile)
Automotive temperature
PATENTED

PART NO. / DRAWING NO.
A829-1J1T-KM

FILE NAME
A829-1J1T-KM_PA.DWG

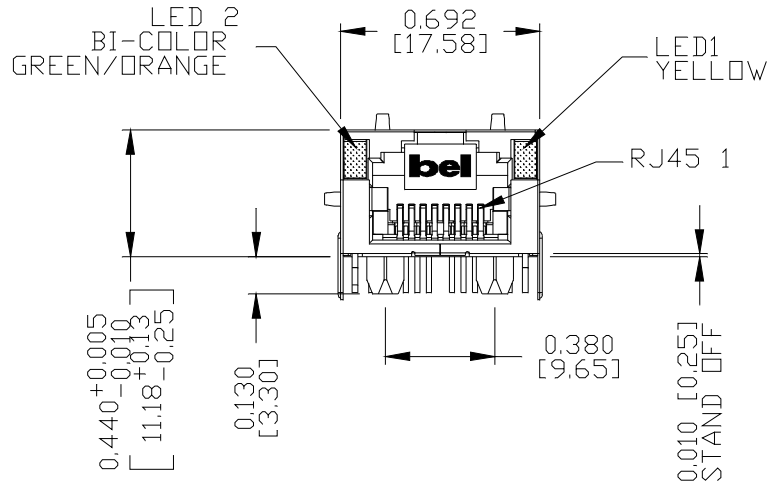
STANDARD DIM.
TOL. IN INCH
[] METRIC DIM.
AS REF.
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : PA PAGE : 2



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PRELIMINARY



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA, BLACK

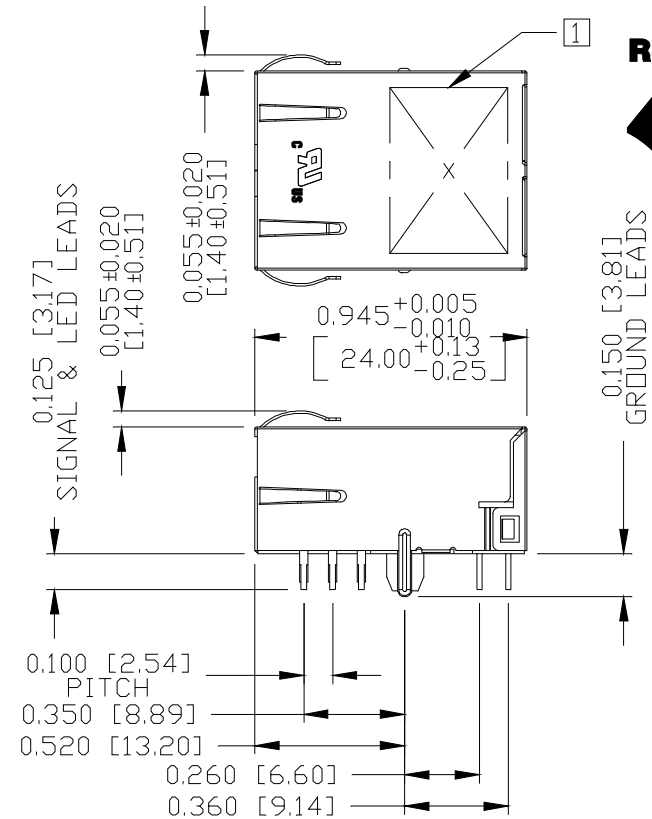
FLAMMABILITY RATING UL 94V-0

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.

OUTPUT PINS: TIN-COATED COPPER WIRE, 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)

- MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, DATE CODE AND PATENTED.
- THE PRODUCT IS RoHS COMPLIANT WITH NO EXEMPTION AND HALOGEN FREE.



UL RECOGNIZED - FILE #E196366 AND E169987.

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

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

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

6. THE PRODUCT IS DESIGNED TO BE COMPATIBLE WITH THE SAE/USCAR2-6 STANDARD, TEMPERATURE CLASS T2, SEALING CLASS S1 AND VIBRATION CLASS V1.

REV. : PA PAGE : 3

ORIGINATED BY
ANTON LIAO
DATE 2017-09-28

DRAWN BY
JESSE LI
DATE 2017-09-28

TITLE
Gigabit MagJack®
(Ultra Low Profile)
Automotive temperature
PATENTED

PART NO. / DRAWING NO.
A829-1J1T-KM

FILE NAME
A829-1J1T-KM_PA.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

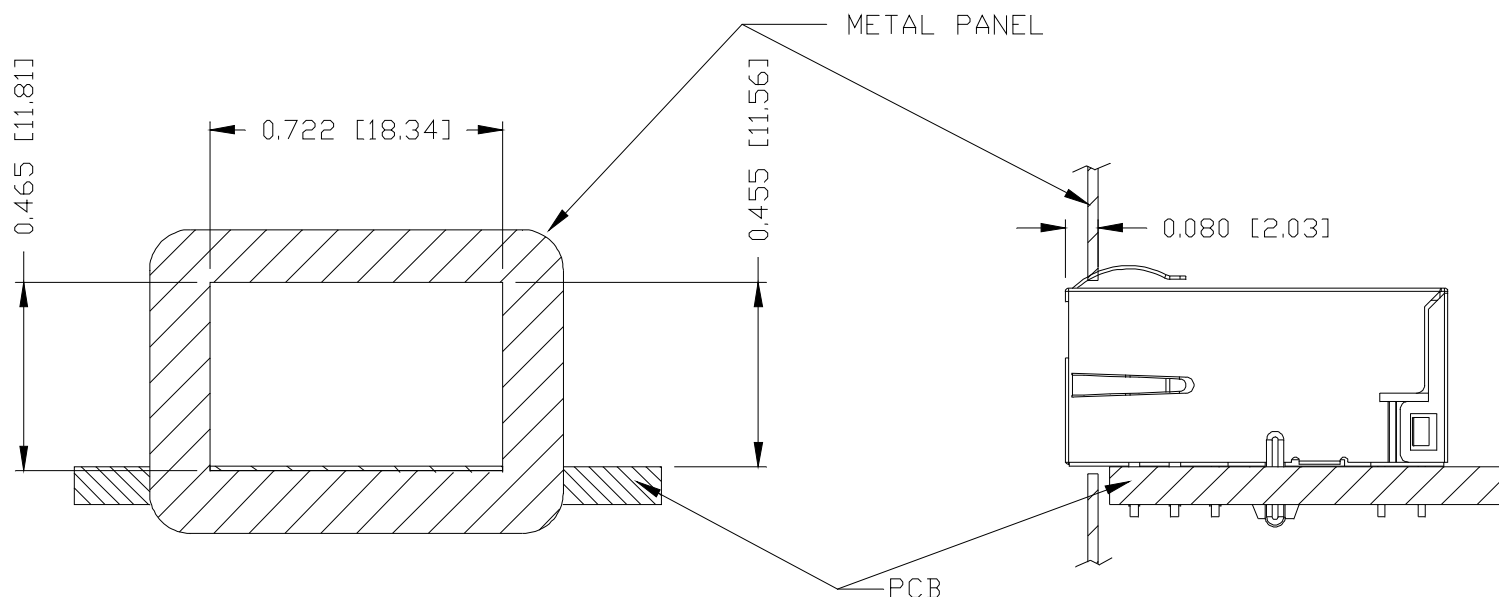
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SUGGESTED PANEL OPENING

PRELIMINARY



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.

TRAY PACKING INFORMATION

PACKING TRAY : 0200-9999-E4 (TOP)
0200-9999-E5 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY
11 TRAYS (660 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. :	PA	PAGE :	5
ORIGINATED BY ANTON LIAO DATE 2017-09-28	TITLE Gigabit MagJack® (Ultra Low Profile) Automotive temperature PATENTED	PART NO. / DRAWING NO. A829-1J1T-KM	STANDARD DIM.		[] METRIC DIM.		
			TOL. IN INCH		AS REF.		
			.X		UNIT : INCH [mm]		
			.XX		SCALE : N/A		
DRAWN BY JESSE LI DATE 2017-09-28		FILE NAME A829-1J1T-KM_PA.DWG	.XXX	±0.004		SIZE : A4	

