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'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE
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WRITTEN APPROVAL OF BEL FUSE INC.

LED1 POLARITY			LED2 POLARITY		
PIN 17	PIN 18	COLOR	PIN 19	PIN 20	COLOR
+	-	YELLOW	+	-	YELLOW
-	+	GREEN	-	+	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TP1	1CT : 1CT
TP2	1CT : 1CT
TP3	1CT : 1CT
TP4	1CT : 1CT

INS. LOSS (MAX)

1MHz TO 20MHz	-0.8 dB
50MHz	-1.0 dB
200MHz	-1.2 dB
400MHz	-2.0 dB
500MHz	-3.0 dB

RET. LOSS (MIN)

1MHz - 40MHz	-16 dB
40MHz - 400 MHz	-16+10LOG (F/40) dB
400MHz - 500 MHz	-6+30LOG (F/400) dB

CM TO DM REJ

1MHz - 500MHz -30 dB MIN

HIPOT (Isolation Voltage): 2250VDC

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

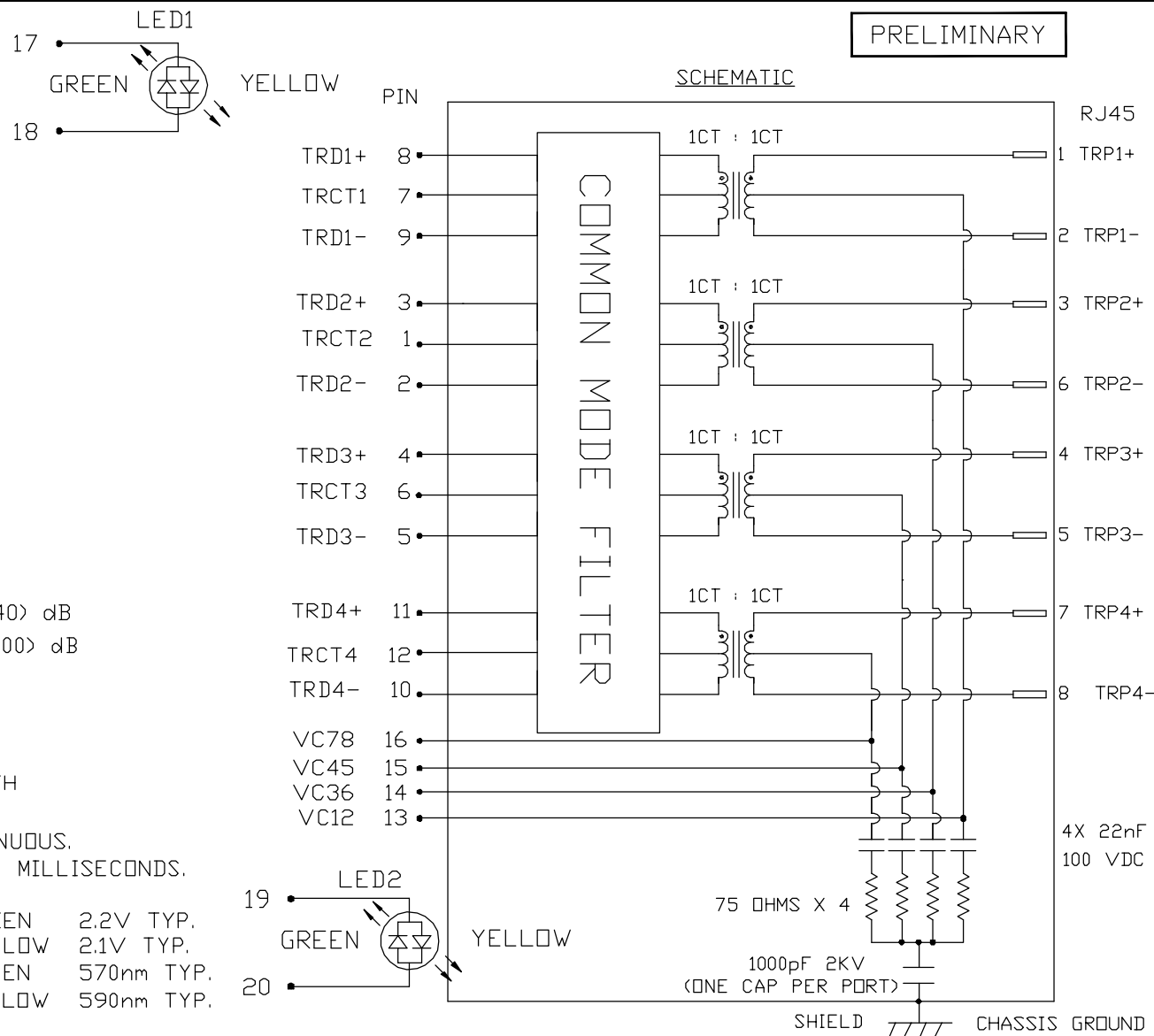
BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS.

1.2A MAX. FOR 200 MILLISECONDS.

LED1 AND LED2

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
ID (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	2.1V TYP.
		GREEN	570nm TYP.
		YELLOW	590nm TYP.

OPERATING TEMPERATURE: -40°C TO +85°C.



PRELIMINARY

RoHS

ORIGINATED BY
CHOW WANCHUNG
DATE 2023-07-07

TITLE
10 gigabit MagJack® 4PPoE PATENTED

PART NO. / DRAWING NO.
G27-122T-066B

FILE NAME
G27-122T-066B_3.DWG

STANDARD DIM. TOL. IN INCH	
1	1.000
2	1.000
3	1.000
4	1.000
5	1.000
6	1.000
7	1.000
8	1.000
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99	1.000
100	1.000

4.x

YV

333

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UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : 3

PAGE : 2

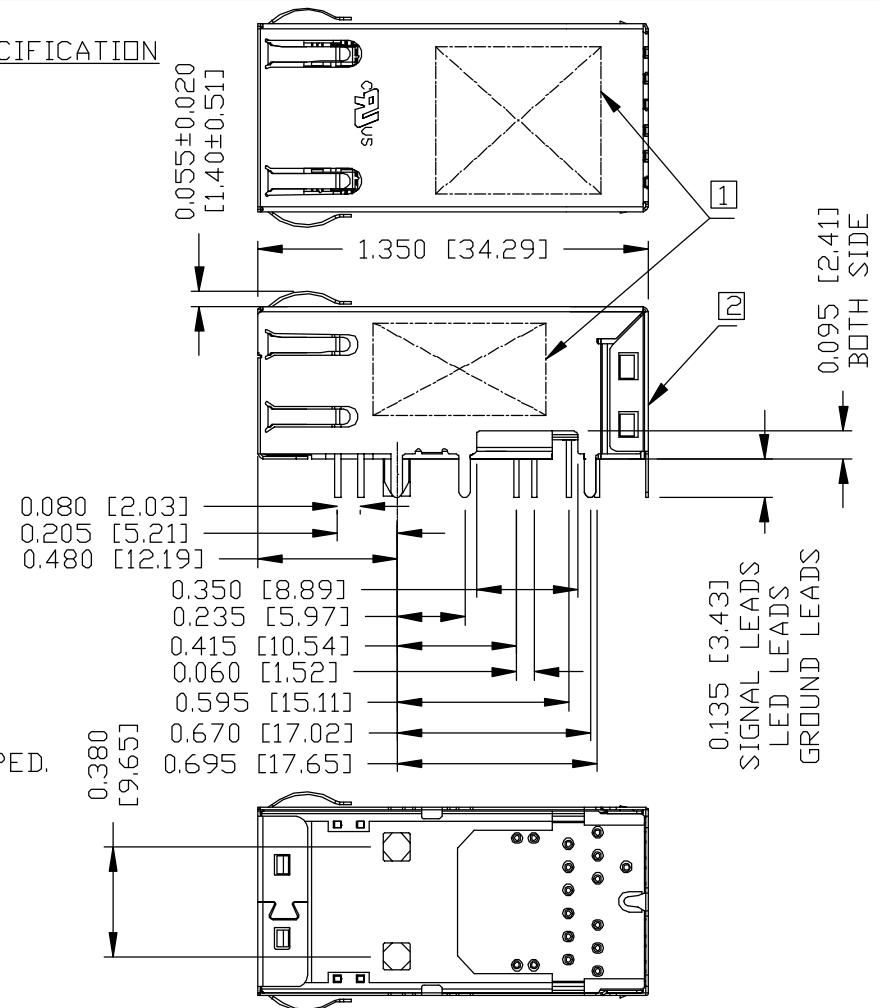
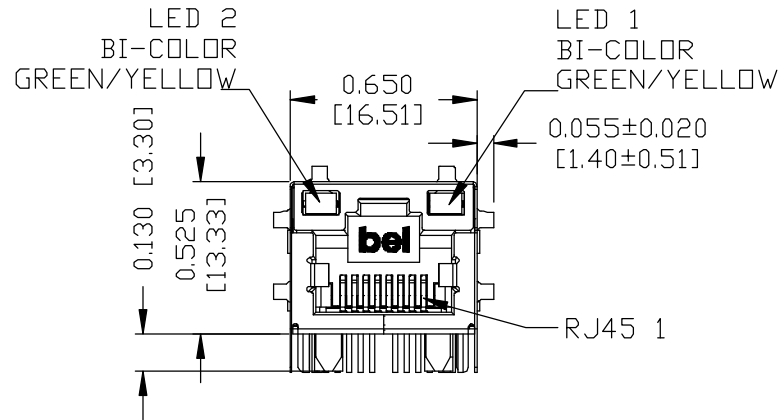


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PRELIMINARY

MECHANICAL SPECIFICATION

RoHS



NOTES:

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

CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT

OUTPUT PINS: LEAD FREE COPPER WIRES, 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)

UL USUL RECOGNIZED - FILE #E169987.

- MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER AND DATE CODE.
- MARKING "PATENTED" IN BACK VIEW.
- THE PRODUCT IS RoHS COMPLIANT.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
- THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 7,924,130 AND U.S. PAT. 7,429,195 AND U.S. PAT. 6,840,817.
- THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.

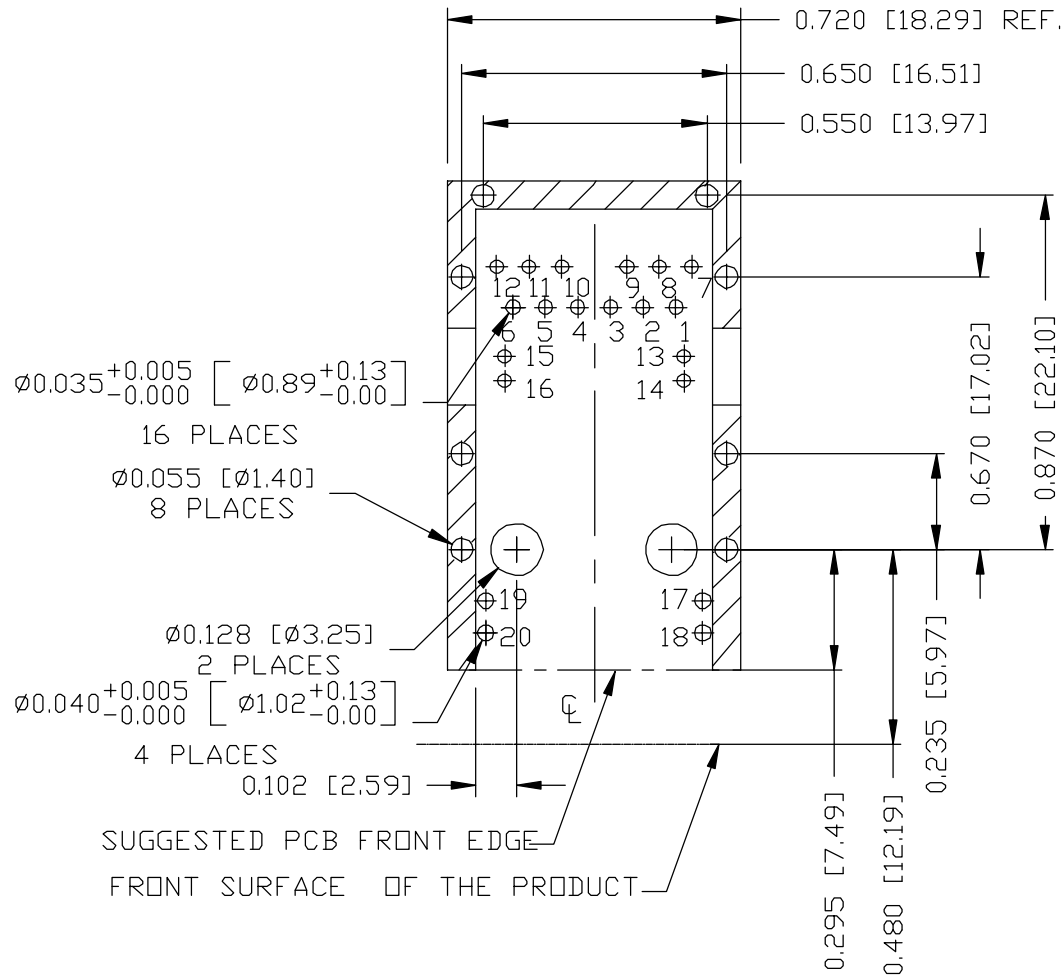
7. THE PART IS COMPLIANT WITH WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX..

ORIGINATED BY ANTON LIAO		TITLE 10 gigabit MagJack® 4PPoE PATENTED	PART NO. / DRAWING NO. G27-122T-066B	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		 bel MAGNETIC SOLUTIONS a bel group
DATE 2023-07-07				.X		UNIT : INCH [mm]		
DRAWN BY TOWER YU			FILE NAME G27-122T-066B_3.DWG	.XX		SCALE : N/A		
DATE 2023-07-07		.XXX ±0.010		 SIZE : A4				

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RECOMMENDED PCB FOOTPRINT

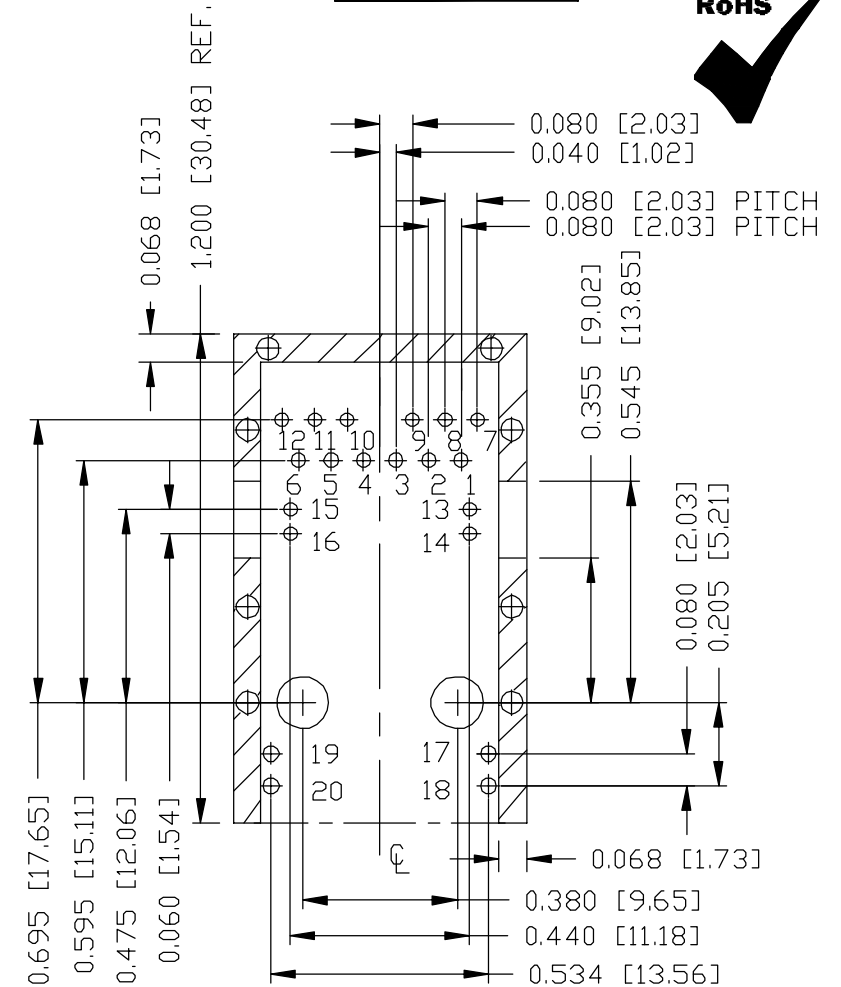
COMPONENT SIDE VIEW



SUGGESTED PCB FRONT EDGE
FRONT SURFACE OF THE PRODUCT

PRELIMINARY

RoHS



NOTES:

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

ORIGINATED BY
ANTON LIAO
DATE 2023-07-07

DRAWN BY
TOWER YU
DATE 2023-07-07

TITLE
10 gigabit MagJack®
4PPoE
PATENTED

PART NO. / DRAWING NO.
G27-122T-066B

FILE NAME
G27-122T-066B_3.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX ±0.004

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : 3 PAGE : 4



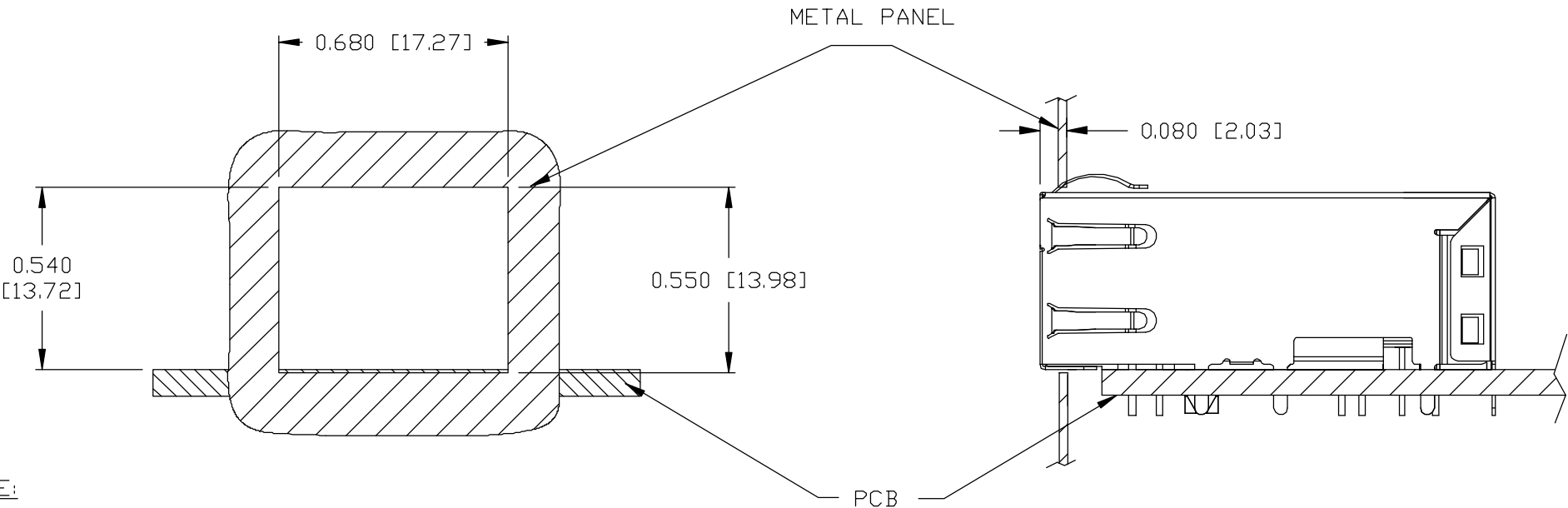
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PRELIMINARY

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: : 0200M9999-K8 (TOP)
0200M9999-K7 (BOTTOM)

PACKING QUANTITY : 48 PCS FINISHED GOODS PER TRAY
9 TRAYS (432 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 2023-07-07

DRAWN BY
TOWER YU
DATE 2023-07-07

TITLE
10 gigabit MagJack®
4PPoE
PATENTED

PART NO. / DRAWING NO.
G27-122T-066B

FILE NAME
G27-122T-066B_3.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX ±0.005

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : 3

PAGE : 5



bel MAGNETIC SOLUTIONS
a bel group