

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.

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

ELECTRICAL CHARACTERISTICS @ 25°C

URNS 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) @ 100 OHMS

1MHz	-18 dB
2MHz	-20 dB
10MHz	-20 dB
100MHz	-20 dB
200MHz	-18 dB
300MHz	-15 dB
400MHz	-10 dB
500MHz	-8 dB

CM TO CM REJ

1MHz - 500MHz	-25 dB MIN
---------------	------------

CM TO DM REJ

1MHz - 500MHz	-25 dB MIN
---------------	------------

HIPOT (Isolation Voltage): 2250VDC

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

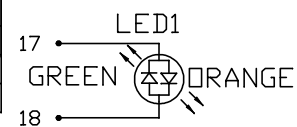
LED1 AND LED2

VF (FORWARD VOLTAGE) IF=20mA	GREEN 2.2V TYP.
	ORANGE 2.0V TYP.
AD (DOMINANT WAVELENGTH) IF=20mA	GREEN 570nm
	ORANGE 605nm.

BALANCED DC LINE CURRENT 600 mA MAX.

@ 57 VDC CONTINUOUS
1.2 A MAX.
@ 57 VDC for 200 MILLISECONDS

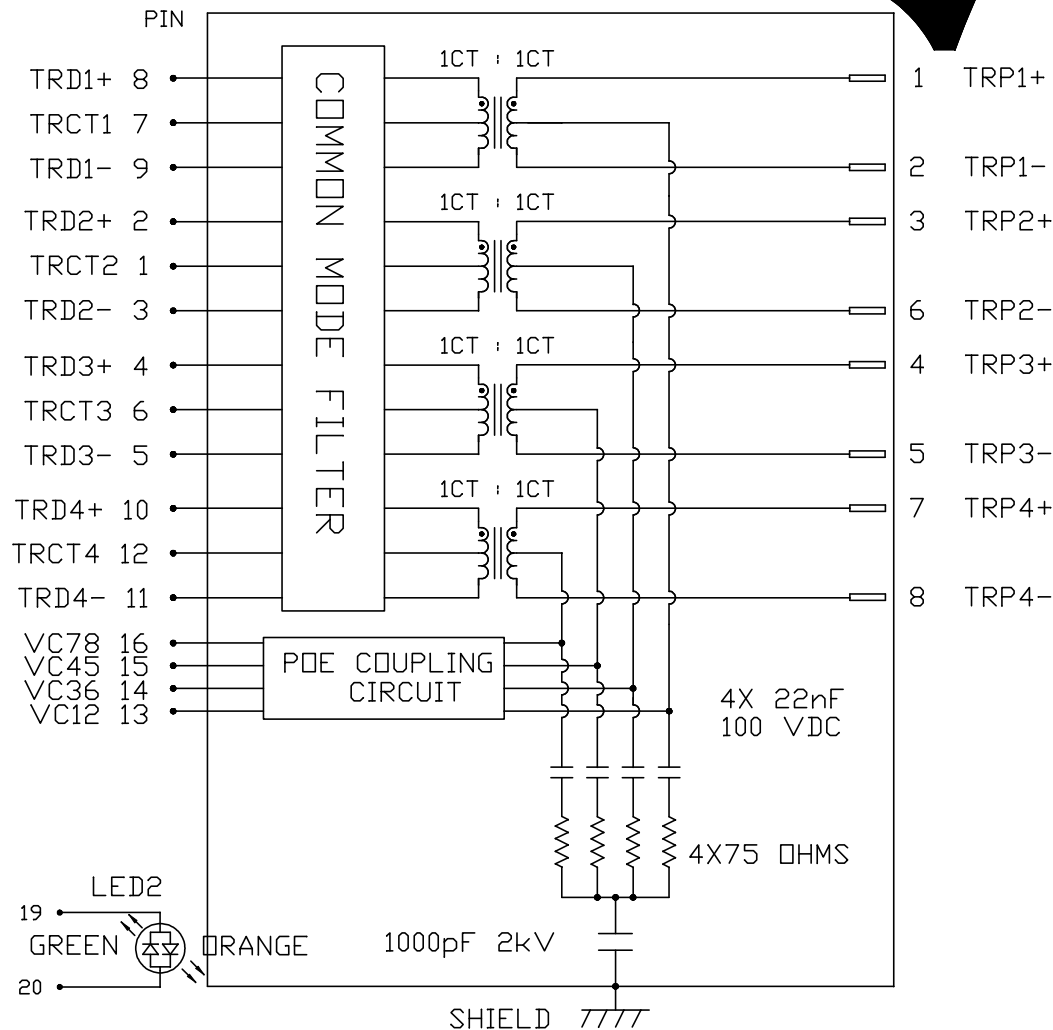
OPERATING TEMPERATURE: 0°C TO +70°C.



SCHEMATIC

RJ45

RoHS



ORIGINATED BY
CHOW WANCHUNG

DATE 2017-08-04

DRAWN BY
LI LIN FENG

DATE 2017-08-04

TITLE

10 glgabit MagJack®

UPoE

PATENTED

PART NO. / DRAWING NO.

G27-111T-118

FILE NAME

G27-111T-118_A.DWG

STANDARD DIM.
TOL. IN INCH

.X

.XX

.XXX

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : A

PAGE : 2

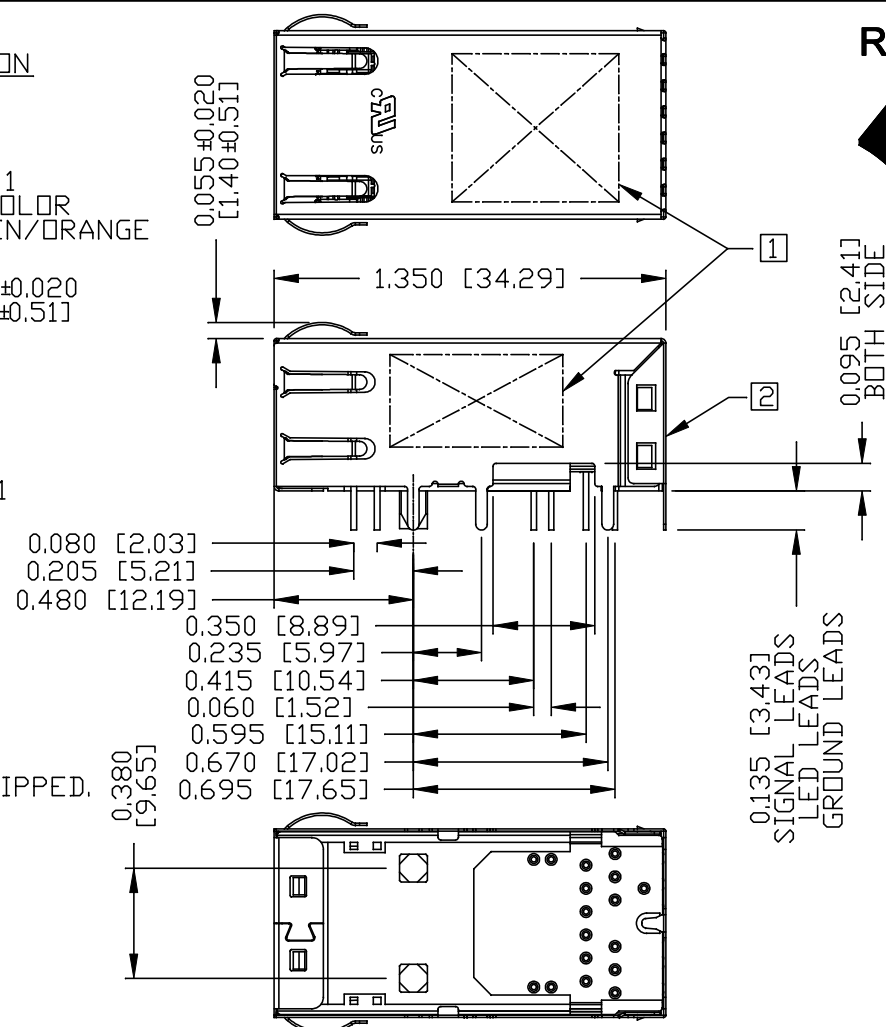
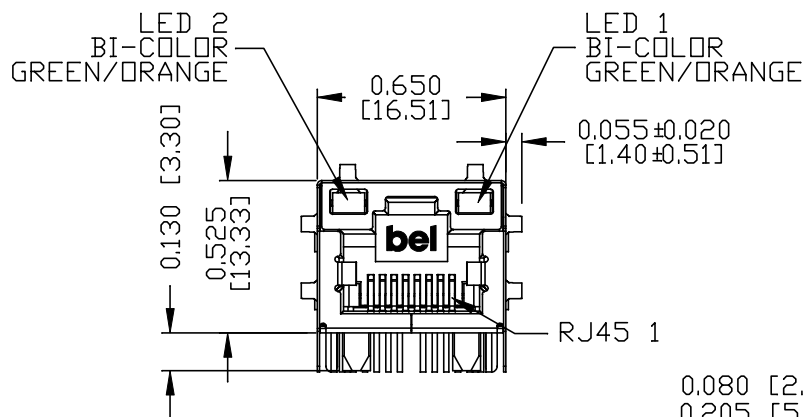


bel MAGNETIC SOLUTIONS
a bel group

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:

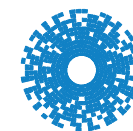
PLASTIC HOUSING: THERMOPLASTIC PA, BLACK
FLAMMABILITY RATING UL 94V-0
CONTACTS: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT
OUTPUT PINS: LEAD FREE COPPER WIRES, DIA 0.018 INCH.
100 MICRO-INCH MIN MATTE TIN. PINS ARE SOLDER DIPPED.
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

cULus UL RECOGNIZED - FILE #E169987.

1. MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER AND DATE CODE.
2. MARKING "PATENTED" IN BACK VIEW
3. THE PRODUCT IS RoHS COMPLIANT.
4. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
5. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE
U.S. PAT. 7,924,130 AND U.S. PAT. 7,123,117
AND U.S. PAT. 7,429,195 AND U.S. PAT. 6,840,817.
6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.

7. THE PART IS COMPLIANT WITH WAVE SOLDERING AND IR REFLOW.
FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING
CONDITION IS 260°C MAX. AND 10 SECONDS MAX.
FOR IR REFLOW, THE SUGGESTED PEAK IR REFLOW CONDITION IS
245°C MAX AND 30 SECONDS MAX.

REV. : A		PAGE : 3	
ORIGINATED BY ANTON LIAO	TITLE 10 gigabit MagJack® UPoE PATENTED	PART NO. / DRAWING NO. G27-111T-118	STANDARD DIM. TOL. IN INCH
DATE 2017-08-04		FILE NAME G27-111T-118_A.DWG	[] METRIC DIM. AS REF.
DRAWN BY JESSE LI			UNIT : INCH [mm]
DATE 2017-08-04			SCALE : N/A
			SIZE : A4



bel MAGNETIC
SOLUTIONS
a bel group

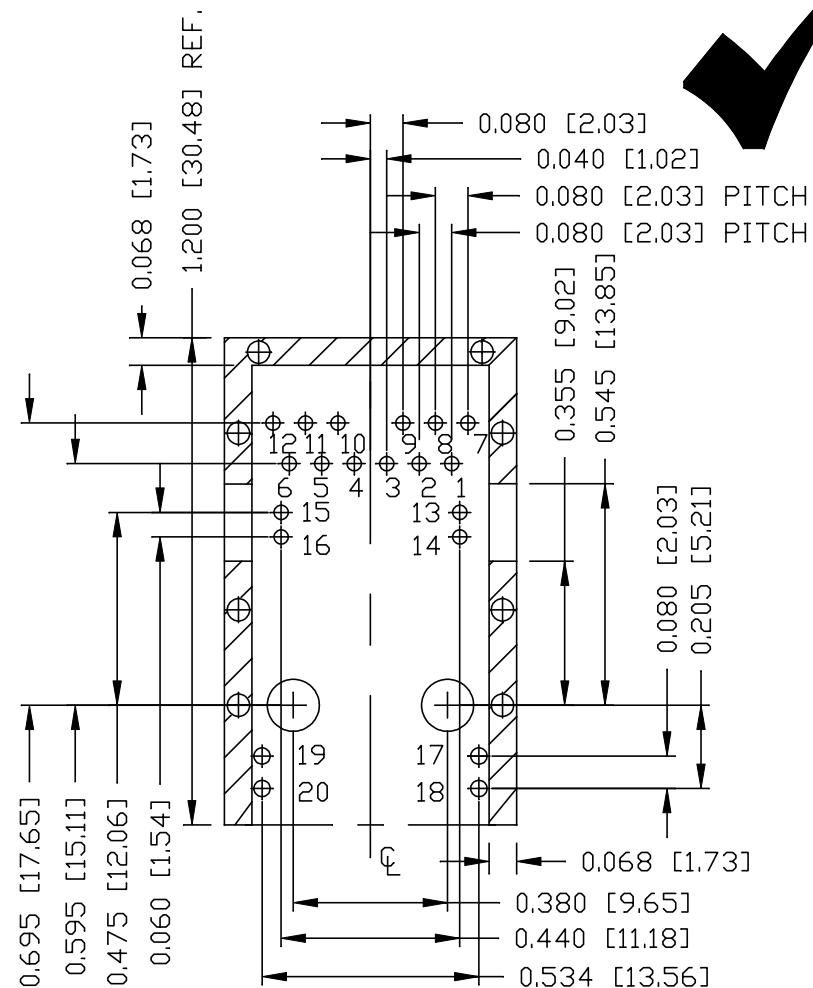
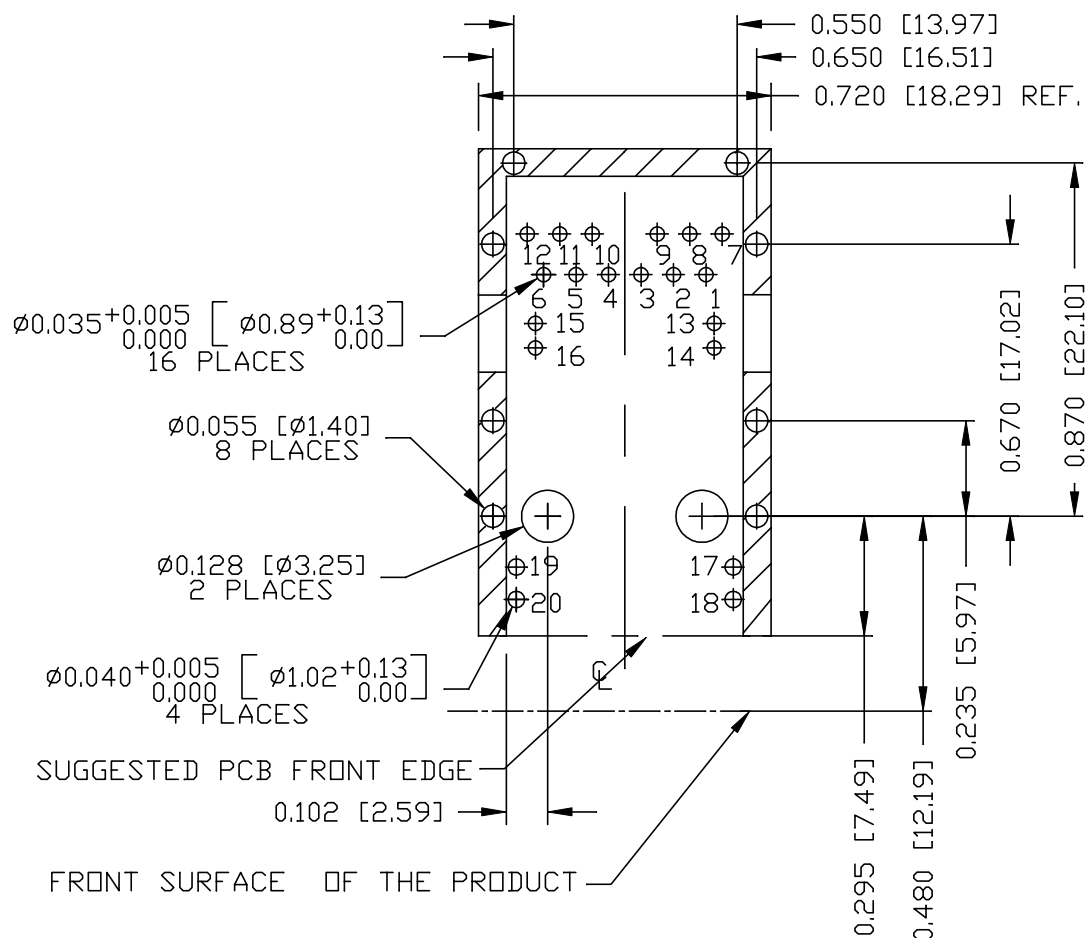
THE INFORMATION CONTAINED HEREIN IS CONSIDERED
"PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE
COPIED, REPRODUCED OR DISCLOSED WITHOUT THE
WRITTEN APPROVAL OF BEL FUSE INC.

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.

ORIGINATED BY
ANTON LIAO

DATE 2017-08-04

DRAWN BY
JESSE LI

DATE 2017-08-04

TITLE

10 gigabit MagJack®
UPoE
PATENTED

PART NO. / DRAWING NO.

G27-111T-118

FILE NAME

G27-111T-118_A.DWG

STANDARD DIM.
TOL. IN INCH

.X

.XX

.XXX

±0.004

[] METRIC DIM.
AS REF.

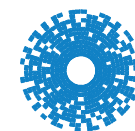
UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : A

PAGE : 4



bel
a bel group

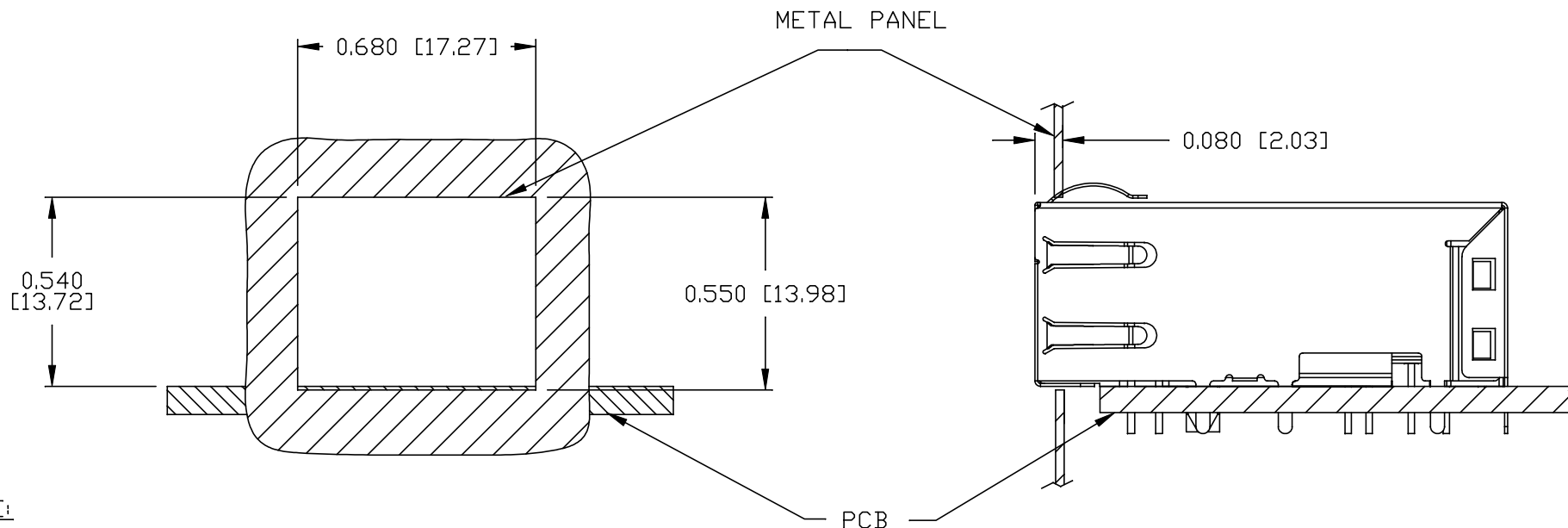
**MAGNETIC
SOLUTIONS**

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: : 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)

REV. : A		PAGE : 5	
ORIGINATED BY ANTON LIAO	TITLE 10 gigabit MagJack® UPoE PATENTED	PART NO. / DRAWING NO. G27-111T-118	STANDARD DIM. TOL. IN INCH
DATE 2017-08-04		FILE NAME G27-111T-118_A.DWG	[] METRIC DIM. AS REF.
DRAWN BY JESSE LI			UNIT : INCH [mm]
DATE 2017-08-04			SCALE : N/A
			SIZE : A4



bel MAGNETIC
SOLUTIONS
a bel group