

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.



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)

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

CM TO CM REJ

1MHz - 500MHz	-30 dB MIN
---------------	------------

CM TO DM REJ

1MHz - 500MHz	-30 dB MIN
---------------	------------

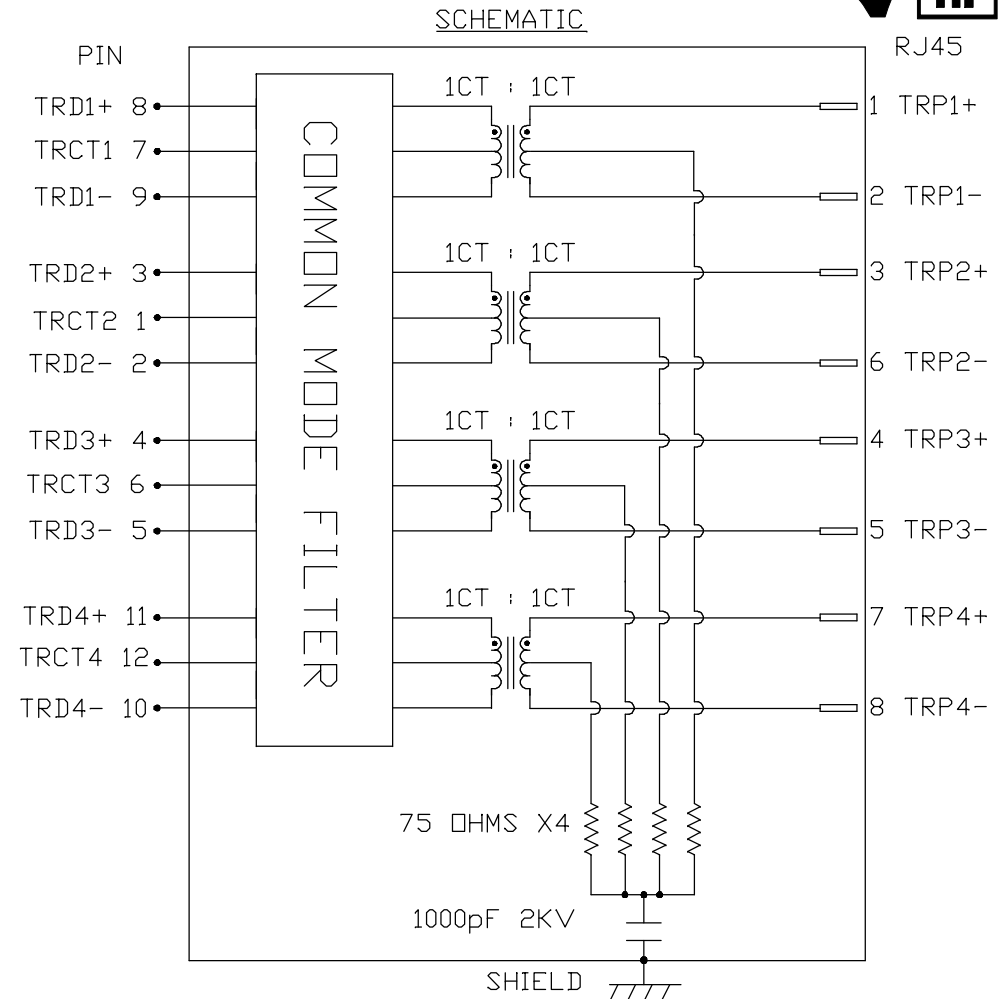
HIPOT (Isolation Voltage):

2250VDC

100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.

OPERATING TEMPERATURE: 0°C TO +70°C.



REV. : A PAGE : 2

ORIGINATED BY
 CHOW WANCHUNG
 DATE 2019-04-23

DRAWN BY
 XIE YIMING
 DATE 2019-04-23

TITLE
 10 gigabit MagJack®
 (With Light Pipe Only)
 (Ultra Low Profile)
 G10-18NN-012E
 PATENTED

PART NO. / DRAWING NO.
 G10-18NN012E

FILE NAME
 G10-18NN012E_A.DWG

STANDARD DIM.
 TOL. IN INCH

.X
 .XX
 .XXX

[] METRIC DIM.
 AS REF.

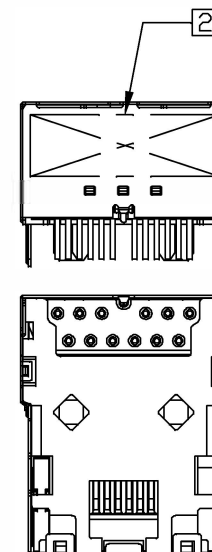
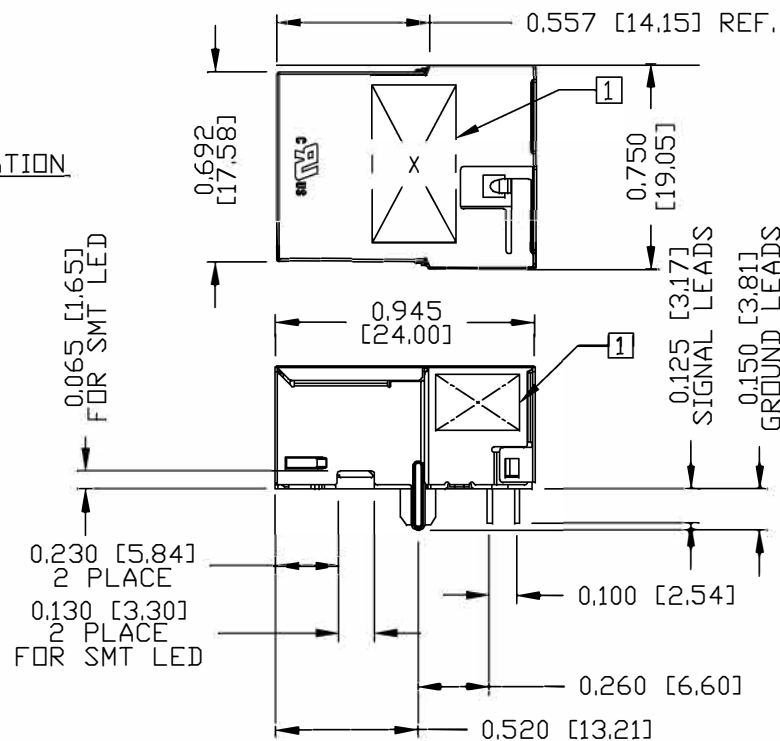
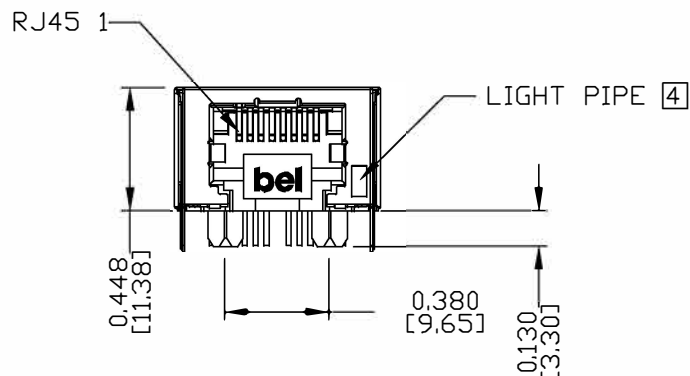
UNIT : INCH [mm]
 SCALE : N/A
 SIZE : A4



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



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)

1. MARK PART WITH PART NUMBER, DATE CODE AND PATENTED.
2. MARK PART WITH MFG. LOGO, MFG. NAME ON BACK VIEW.
3. THE PRODUCT IS RoHS COMPLIANT AND HALOGEN FREE.
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

cULus UL RECOGNIZED - FILE # E169987.

4. THE FINISHED GOODS IS WITHOUT SMD LED.
THE SMD LED IS PROVIDED BY CUSTOMER HERSELF,
AND THE SMD LED IS MOUNTED ON CUSTOMER PCB.
5. THE PRODUCT IS PATENTED. "PATENTED" MARKING IS ON THE TOP
SURFACE. THE PATENT NUMBER ARE U.S. PAT. 7,429,195 &
& U.S. PAT. 7,123,117 & U.S. PAT. 6,840,817 AND U.S. PAT. 7,924,130.
6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LBS MIN.
7. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE
SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX
AND 10 SECONDS MAX.

ORIGINATED BY SANDY LIN DATE 2019-04-23		TITLE 10 gigabit MagJack® (With Light Pipe Only) (Ultra Low Profile) G10-18NN-012E PATENTED		PART NO. / DRAWING NO. G10-18NN012E FILE NAME G10-18NN012E_A.DWG		STANDARD DIM. TOL. IN INCH [] METRIC DIM. AS REF.		REV. : A	PAGE : 3
DRAWN BY OLIVER ZHANG DATE 2019-04-23						.X .XX .XXX		UNIT : INCH [mm] SCALE : N/A SIZE : A4	

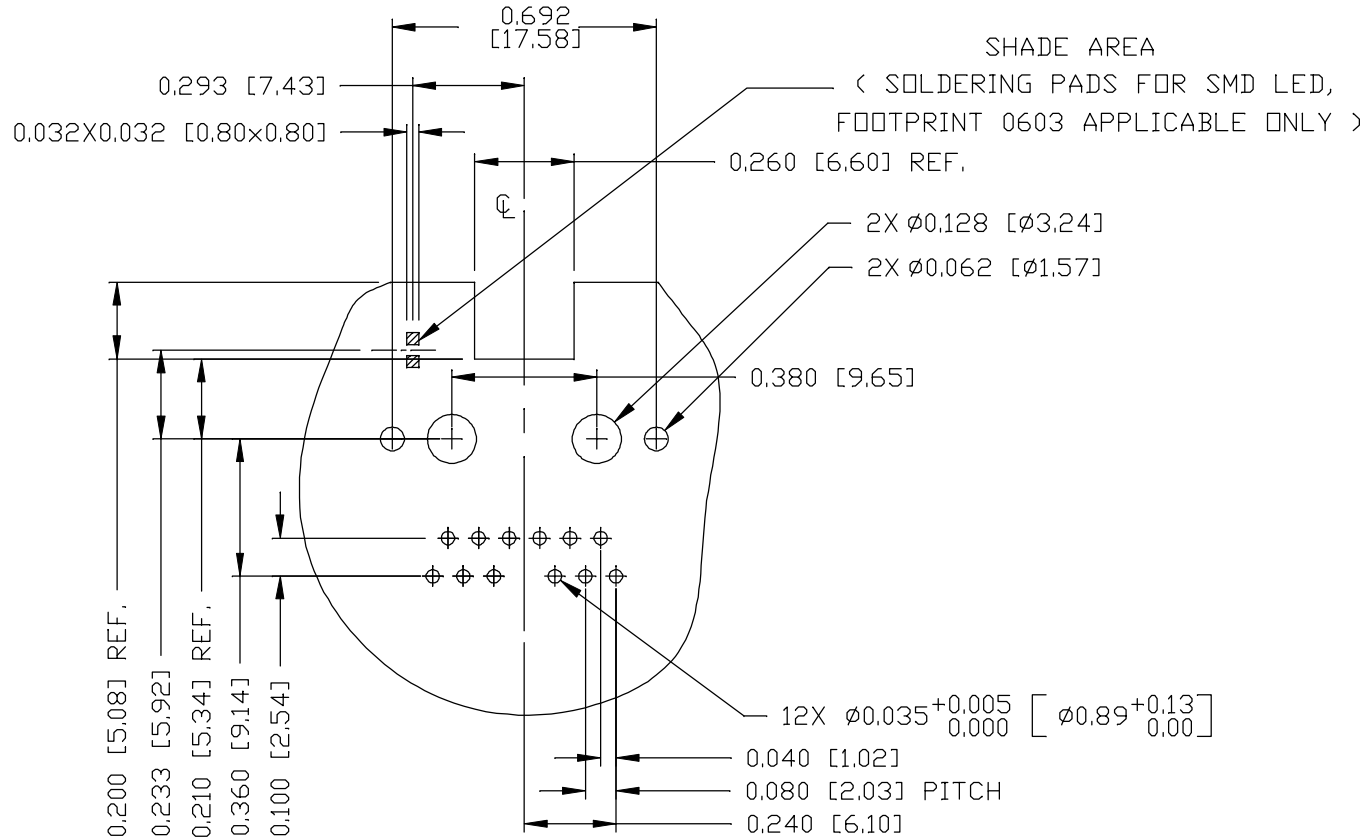


THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

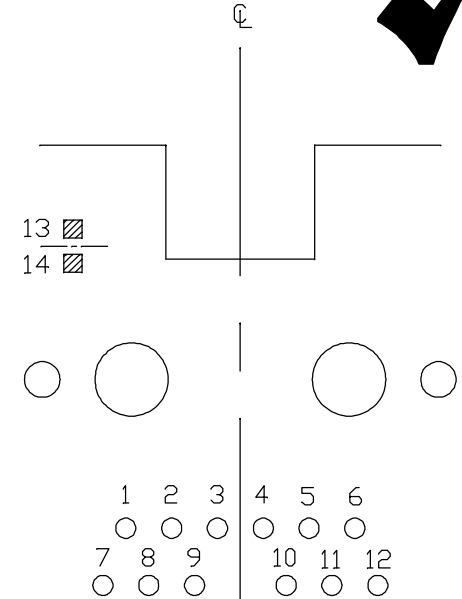


RECOMMENDED PCB FOOTPRINT

COMPONENT SIDE VIEW

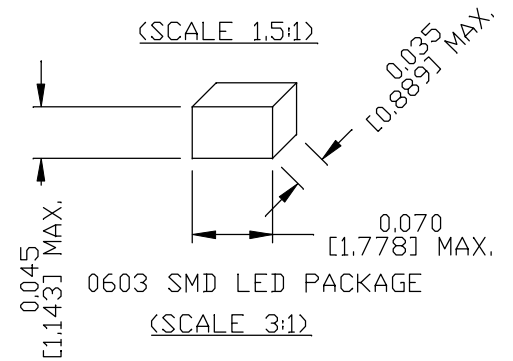


FOR ONE UNIT



PIN-OUT INFORMATION

(SCALE 1.5:1)



ORIGINATED BY
SANDY LIN
DATE 2019-04-23
DRAWN BY
OLIVER ZHANG
DATE 2019-04-23

TITLE
10 gigabit MagJack®
(With Light Pipe Only)
(Ultra Low Profile)
G10-18NN-012E
PATENTED

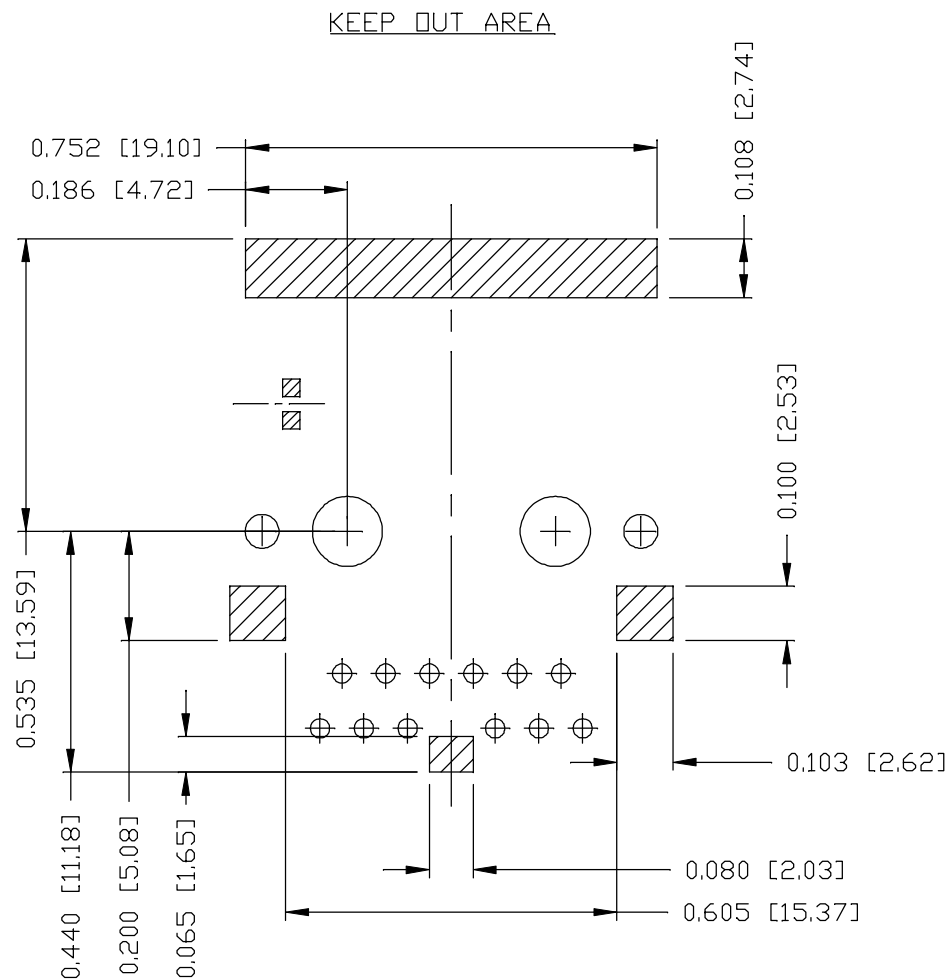
PART NO. / DRAWING NO.
G10-18NN012E
FILE NAME
G10-18NN012E_A.DWG

STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.
.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4

REV. : A PAGE : 4

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.



NOTES:

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

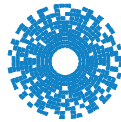
ORIGINATED BY
SANDY LIN
DATE 2019-04-23
DRAWN BY
OLIVER ZHANG
DATE 2019-04-23

TITLE 10 Gb/s MagJack®
(With Light Pipe Only)
(Ultra Low Profile)
G10-18NN-012E
PATENTED

PART NO. / DRAWING NO.
G10-18NN012E
FILE NAME
G10-18NN012E_A.DWG

STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.
.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4

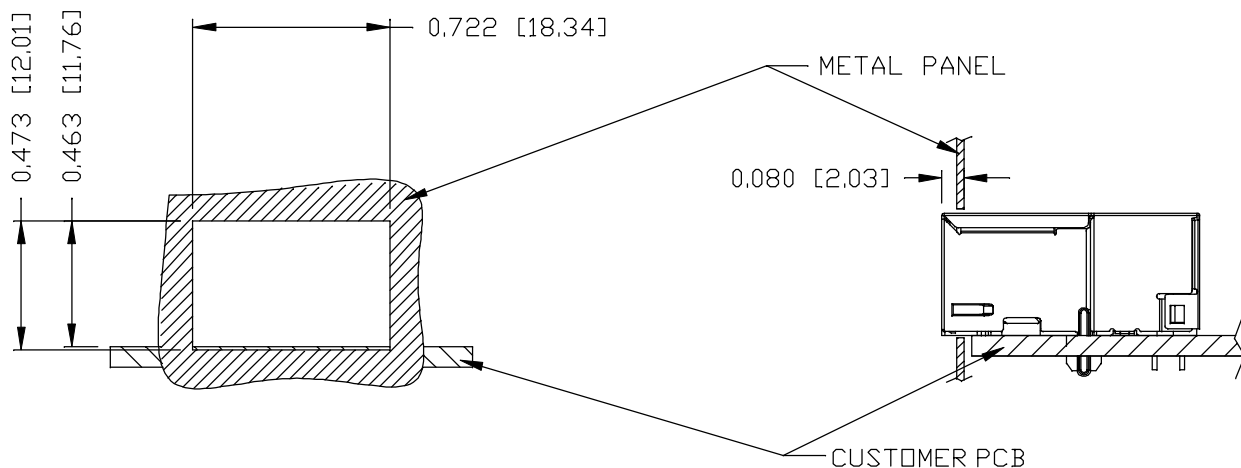
REV. : A	PAGE : 5
----------	----------


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.



SUGGESTED PANEL OPENING



NOTE:

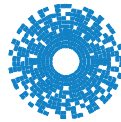
THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

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

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

REV. : A	PAGE : 6
 bel MAGNETIC SOLUTIONS a bel group	

ORIGINATED BY
SANDY LIN
DATE 2019-04-23
DRAWN BY
OLIVER ZHANG
DATE 2019-04-23

TITLE
10 glgabit MagJack®
(With Light Pipe Only)
(Ultra Low Profile)
G10-18NN-012E
PATENTED

PART NO. / DRAWING NO.
G10-18NN012E
FILE NAME
G10-18NN012E_A.DWG

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

PC002(2)120214

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