



POWER | PROTECT | CONNECT

DOCUMENT / PART NO.: 0875-1G2T-E3

TITLE : PRODUCT SPECIFICATION

ISSUE	DESCRIPTION OF CHANGE					REVIEWED BY					APPROVED BY					ECN#
A	FIRST ISSUE					BILL CHEN					SHUN LEUNG 2006-10-14					
B	ADD PANENTED INFORMATION AND UPDATE ROHS DESCRIPTION & OTHER GENERAL REQUIREMENT					ANTON LIAO					LEUNG WAI SHUN 2012-08-31					RD2120187
C	UPDATE THE GENERAL REQUIREMENT					ANTON LIAO					LEUNG WAI SHUN 2018-01-19					RD2180011
D	CORRECT SOME PRODUCT VIEWS					LI QUAN KUN					LEUNG WAI SHUN 2021-03-16					RD2210022
E	MOVE THE LASER MARK OF P/N, DATE CODE AND PATENTED ON TOP SURFACE AND REMOVE BACK VIEW					TONY YUAN										RD2250045
PAGE	1	2	3	4	5											
REV.	E	E	E	E	E											
PAGE																
REV.																

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RoHS



LED2 POLARITY			LED1 POLARITY		
PIN 11	PIN 12	COLOR	PIN 13	PIN 14	COLOR
+	-	GREEN	+	-	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

OCL @ 100kHz/100mVRMS

8mA DC BIAS (0°C - 70°C)	350µH MIN.
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INS. LOSS

100KHz TO 125MHz	-1.2 dB MAX
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RET. LOSS (MIN) @ 100DHMS ±15%

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

CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
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CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
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CROSS TALK

1MHz-100MHz	-35 dB MIN
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HIPOT (Isolation Voltage):

1500 Vrms

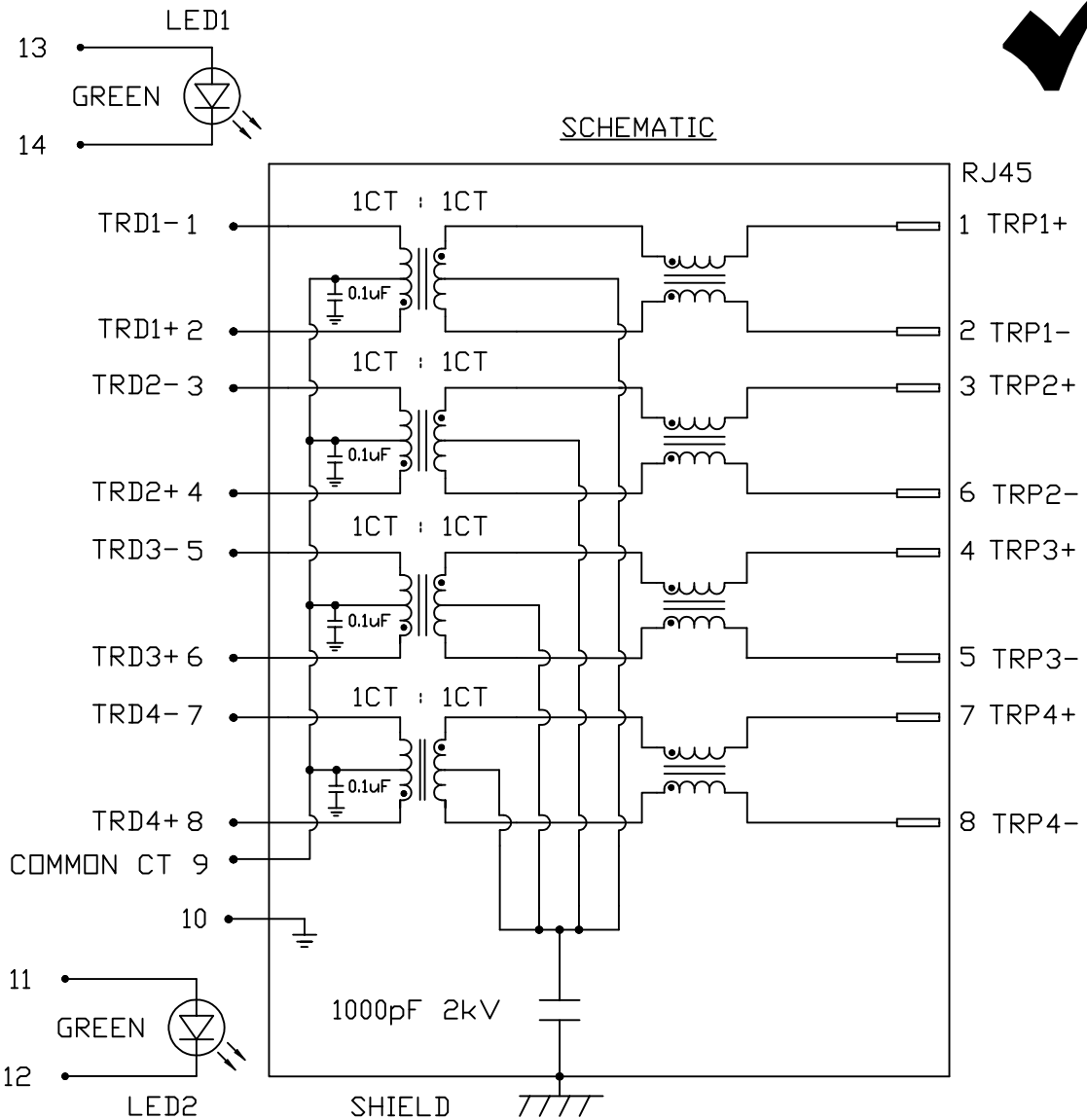
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

LED 1 & 2

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

OPERATING TEMPERATURE

0°C TO +70°C



ORIGINATED BY
ILL LIU
ATE 2025-09-15
DRAWN BY
RANK LIU
ATE 2025-09-15

TITLE
1X2 gigabit MagJack®
(WITH LED)
PATENTED

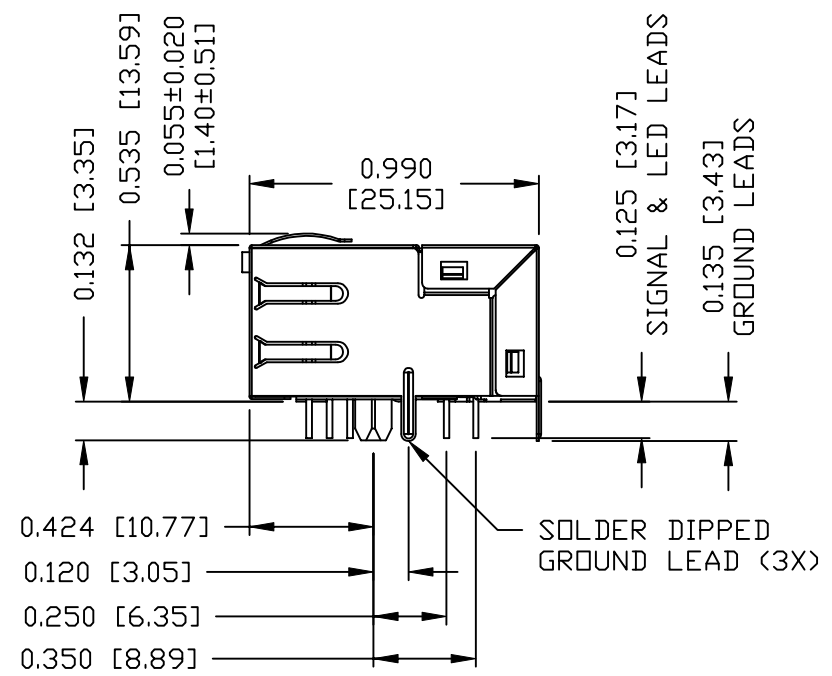
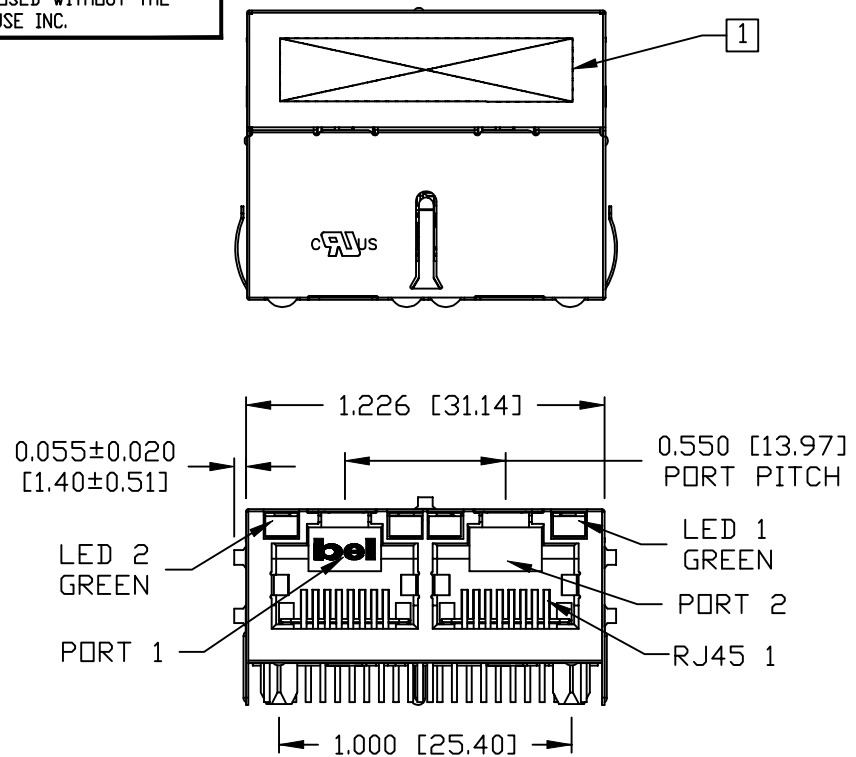
PART NO. / DRAWING NO.
0875-1G2T-E3
FILE NAME
0875-1G2T-E3_E.DWG

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

REV. : E PAGE : 2

a bel group

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NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK
FLAMMABILITY RATING UL 94V-0
- CONTACTS PLATING: 30 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- 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 MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
2. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.
3. THE PRODUCT IS RoHS COMPLIANT.

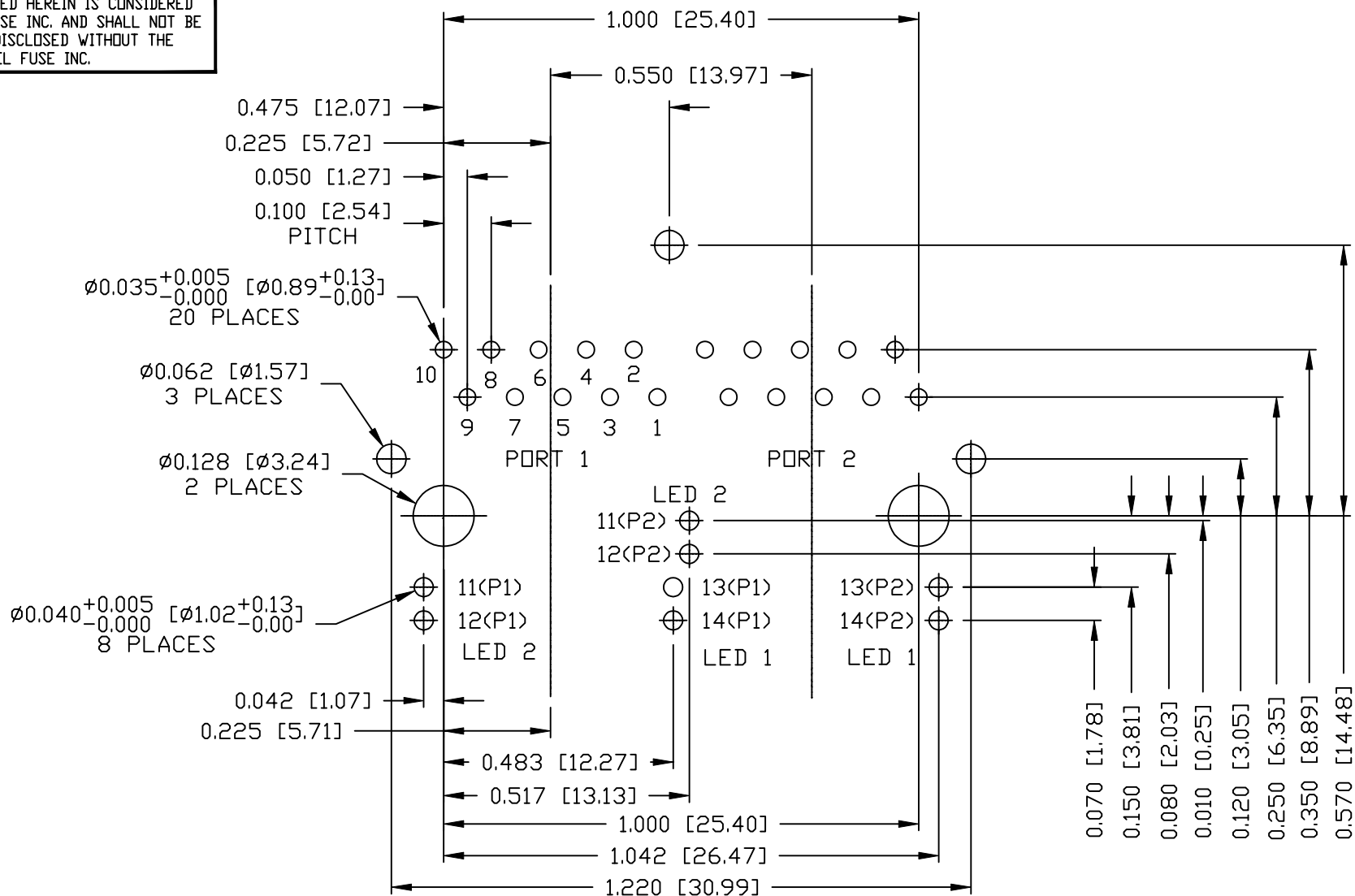
4. THE PRODUCT IS PATENT PRODUCT, THE PATENT NUMBER IS U.S. PAT. 6,840,817.
5. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX. AND 10 SECONDS MAX..

UL RECOGNIZED - FILE #E196366 AND E169987.

ORIGINATED BY DANY YUAN DATE 2025-09-15	TITLE 1X2 gigabit MagJack® (WITH LED) PATENTED	PART NO. / DRAWING NO. 0875-1G2T-E3	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	REV. : E	PAGE : 3
			.X				
DRAWN BY ARRY YE DATE 2025-09-15		FILE NAME 0875-1G2T-E3_E.DWG	.XX		UNIT : INCH [mm]	 bel MAGNETIC SOLUTIONS a bel group	
			.XXX	±0.010	SCALE : N/A SIZE : A4		

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RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE VIEW

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DRAWN BY ARRY YE DATE 2025-09-15		FILE NAME 0875-1G2T-E3_E.DWG	.X .XX .XXX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

02(2)120214

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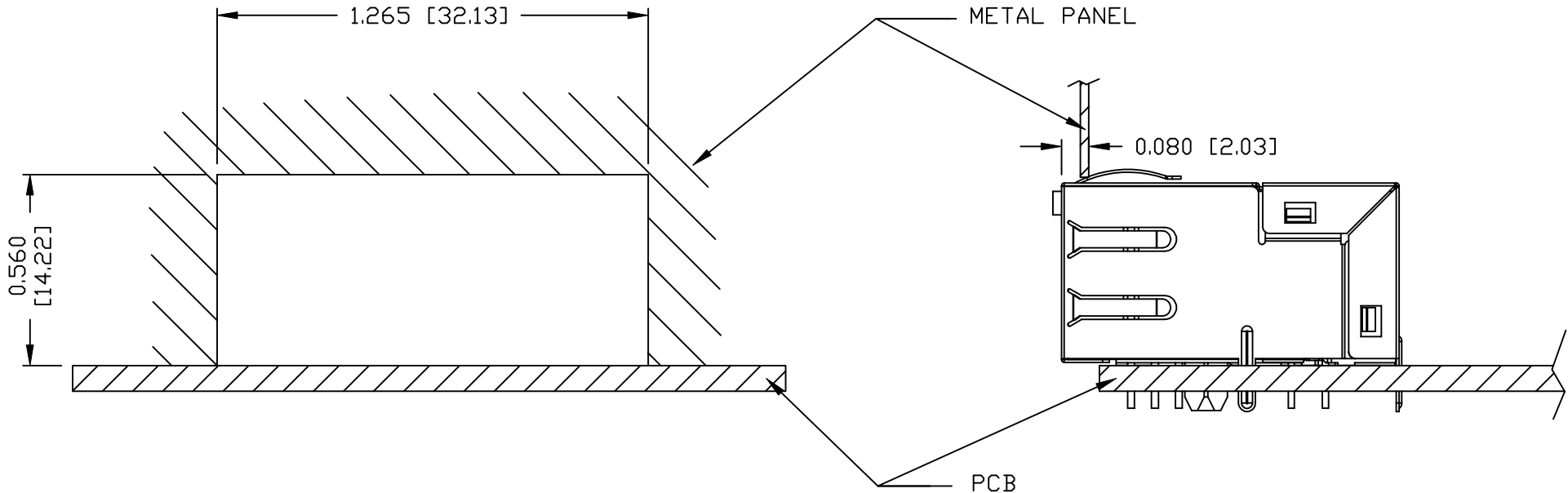
Please read our datasheet & drawing disclaimer [here](#).

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SUGGESTED PANEL OPENING



NOTES:

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-G4 (TOP)
0200-9999-G5 (BOTTOM)

PACKING QUANTITY : 49 PCS FINISHED GOODS PER TRAY
8 TRAYS (392 PCS FINISHED GOODS) PER CARTON BOX

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

(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)						REV. : E		PAGE : 5	
ORIGINATED BY DNY YUAN DATE 2025-09-15	TITLE 1X2 gigabit MagJack® (WITH LED) PATENTED	PART NO. / DRAWING NO. 0875-1G2T-E3		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.			
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				.XX		SCALE : N/A			
				.XXX		±0.005		SIZE : A4	
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