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PRELIMINARY

RoHS

LED 2 & 4 POLARITY			LED 1 & 3 POLARITY		
PIN 11	PIN 12	COLOR	PIN 13	PIN 14	COLOR
−	+	ORANGE	−	+	ORANGE
+	−	GREEN	+	−	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

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

OCL @ 100kHz/100mVRMS

(-40°C - 85°C) 180µH MIN.

RET. LOSS (MIN)

1MHz-40MHz -18 dB MIN

40MHz-250MHz -18+10LOG10(f/40MHz) dB MIN

CM TO CM REJ

100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage): 2250 VDC

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

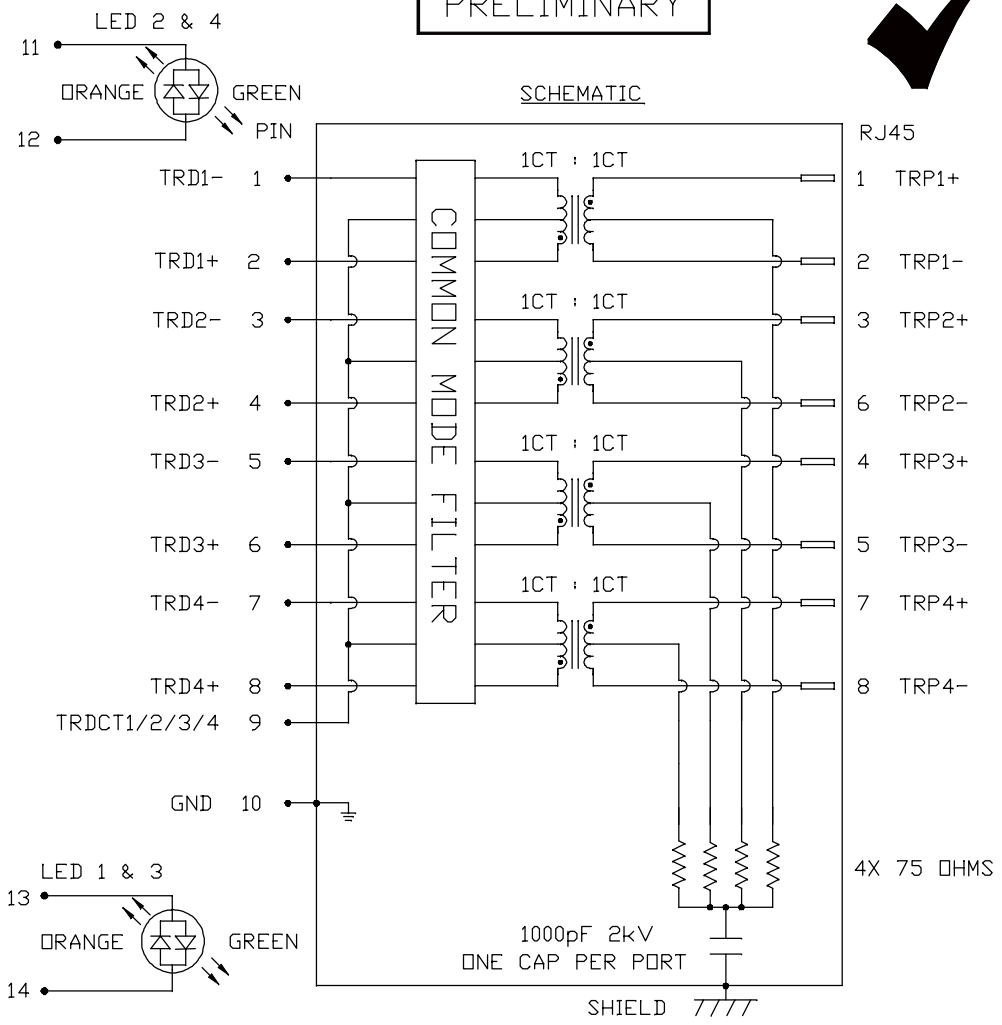
NOTE: PORT-TO-PORT ISOLATION NOT INCLUDED.

LEDS 1, 2, 3 AND 4

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

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

SCHEMATIC



Please read our datasheet & drawing disclaimer here.

REV. : 2 | PAGE : 2

ORIGINATED BY: CHOW WANCHUNG DATE: 2021-03-19	TITLE: 2X2 5 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores, Extended Temp.) PATENTED	PART NO. / DRAWING NO.: 0879-2B2J-JY FILE NAME: 0879-2B2J-JY_2.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX [ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
DRAWN BY: XIE YIMING DATE: 2021-03-19			

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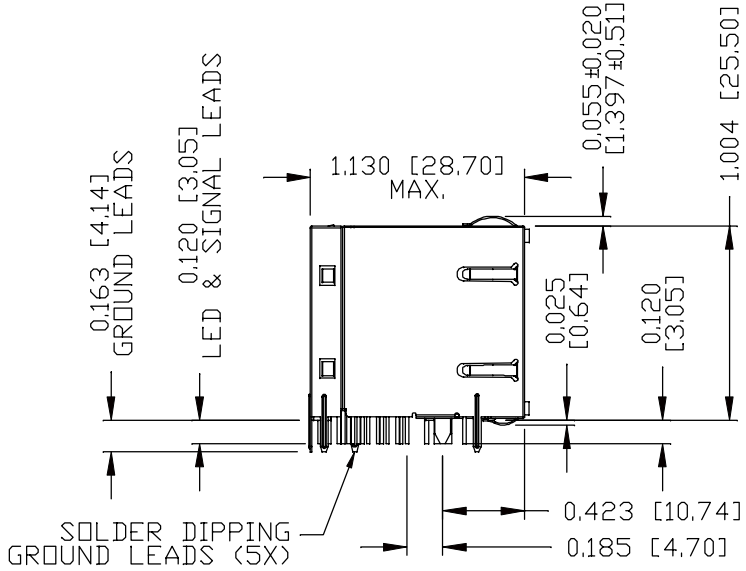
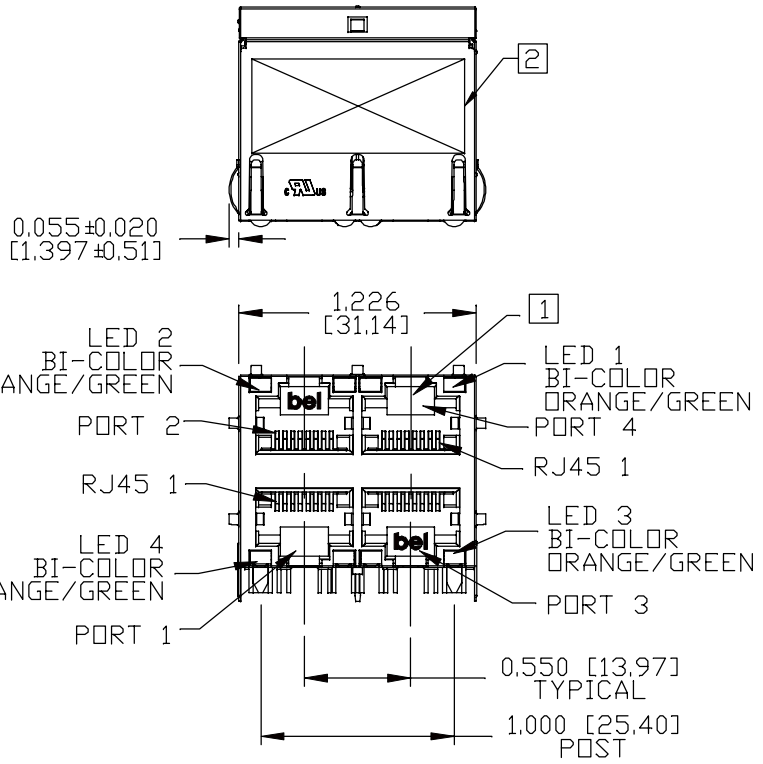
RoHS





NOTES:

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

CONTACT PLATING: 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. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.
3. THE PRODUCT IS RoHS COMPLIANT.
   c UL us UL RECOGNIZED - FILE #E196366 AND E169987.
4. THE PRODUCT IS PATENTED. THE PATENT NUMBER ARE U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.
5. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

ORIGINATED BY: ANTON LIAO DATE: 2021-03-19	TITLE: 2X2 5 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores, Extended Temp.) PATENTED	PART NO. / DRAWING NO.: 0879-2B2J-JY FILE NAME: 0879-2B2J-JY_2.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.010 [ ] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
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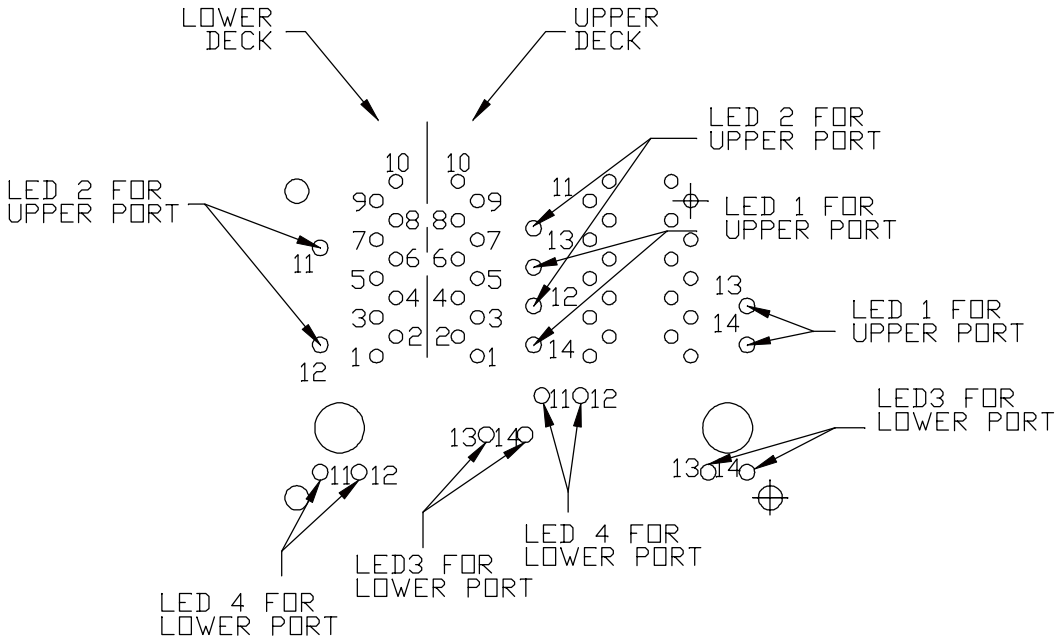


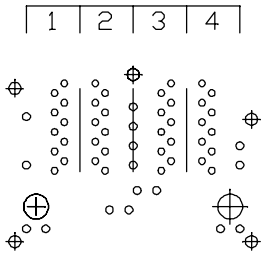
PIN-OUT INFORMATION

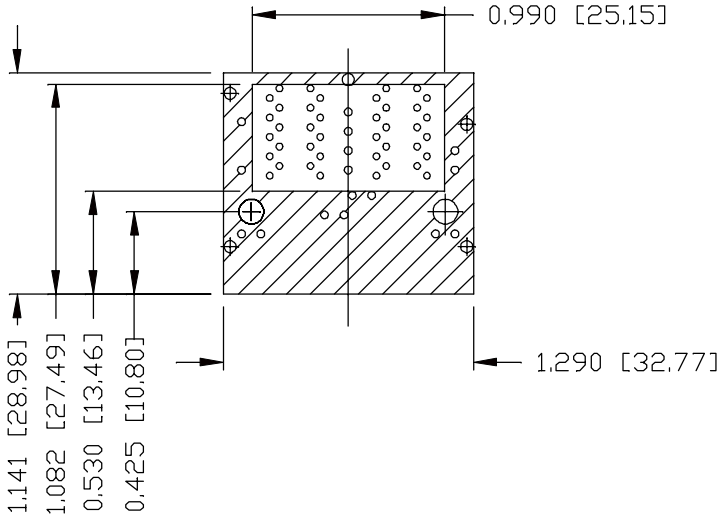
(COMPONENT SIDE VIEW)

10	GND		
9	TRCT1/2/3/4		
8	TRD 4+		
7	TRD 4-		
6	TRD 3+		
5	TRD 3-		
4	TRD 2+	14	ORANGE (+)/GREEN (-)
3	TRD 2-	13	ORANGE (-)/GREEN (+)
2	TRD 1+	12	ORANGE (+)/GREEN (-)
1	TRD 1-	11	ORANGE (-)/GREEN (+)

PORT ASSIGNMENT

(COMPONENT SIDE VIEW)





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

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DRAWN BY LI QUANKUN DATE 2021-03-19		FILE NAME 0879-2B2J-JY_2.DWG	PAGE : 4

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

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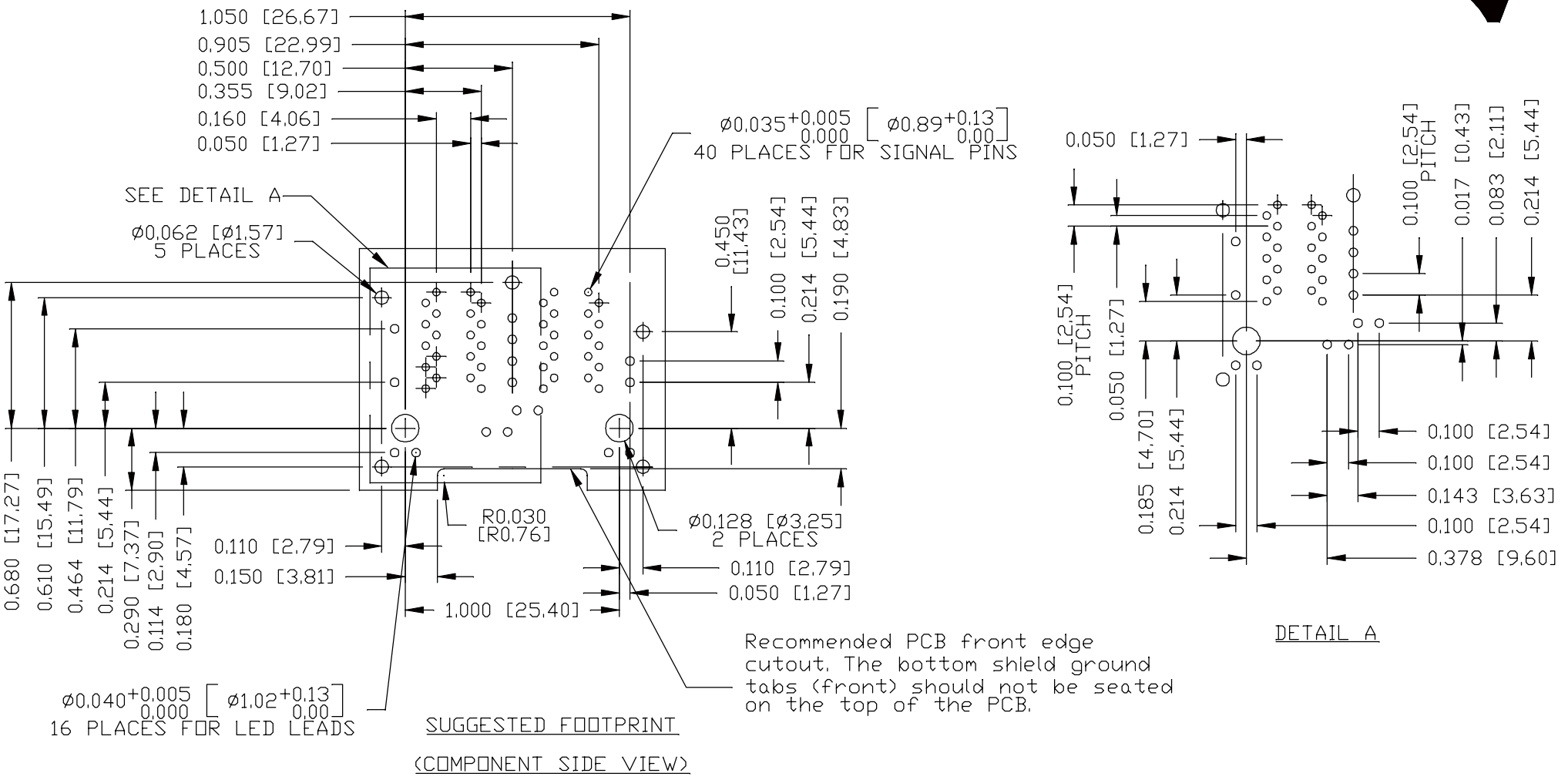

SUGGESTED FOOTPRINT

(COMPONENT SIDE VIEW)

DETAIL A

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PRELIMINARY

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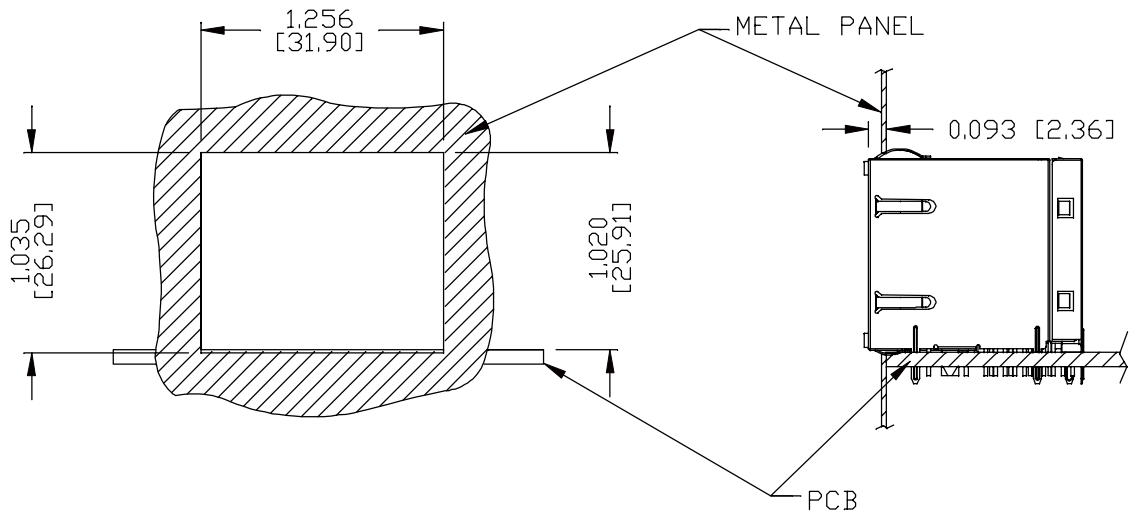
SUGGESTED PANEL OPENING



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 : 0200-9999-P5 (TOP)
0200-9999-P6 (BOTTOM)

PACKING QUANTITY : 28 PCS FINISHED GOODS PER TRAY
7 TRAYS (196 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. : 2				PAGE : 6	
ORIGINATED BY ANTON LIAO DATE 2021-03-19	TITLE 2X2 5 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores, Extended Temp.) PATENTED	PART NO. / DRAWING NO. 0879-2B2J-JY	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.	bel MAGNETIC SOLUTIONS a bel group
DRAWN BY LI QUANKUN DATE 2021-03-19		FILE NAME 0879-2B2J-JY_2.DWG	.X .XX .XXX ±0.005	UNIT : INCH [mm] SCALE : N/A SIZE : A4	

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