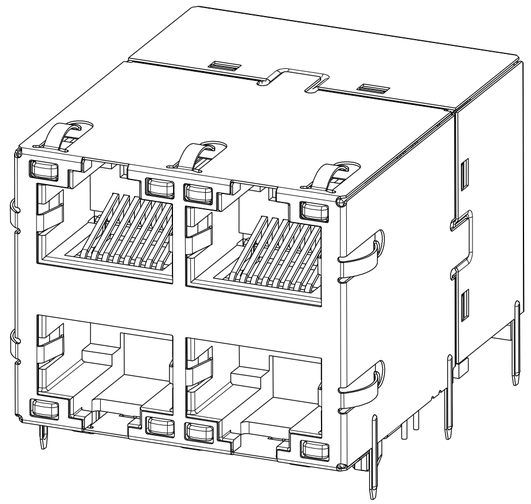
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

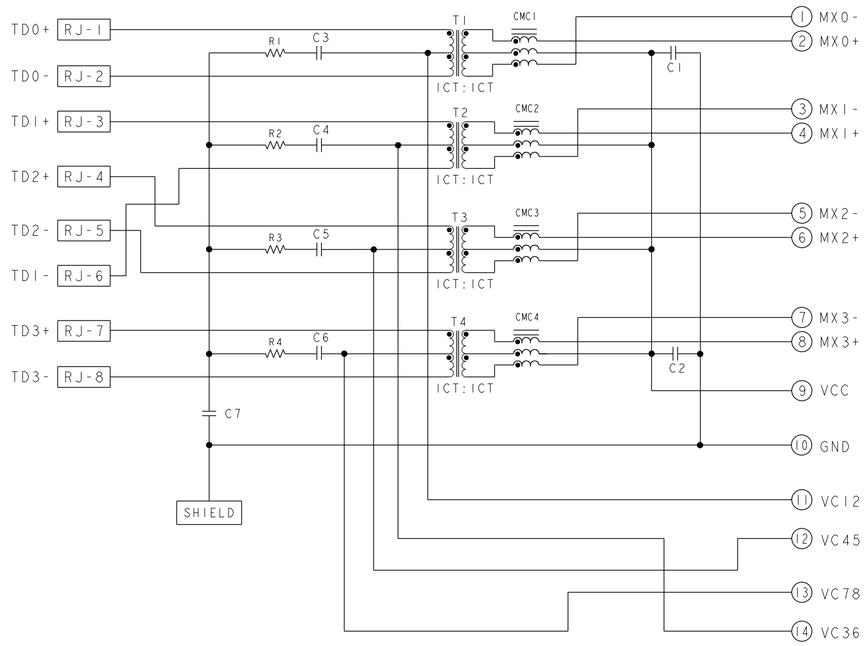
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	1	INITIAL RELEASE	16AUG2017	RL	TY



S9UFG02ET 5G 4PPOE CIRCUIT 2 7

TOP AND BOTTOM PORTS



C1-C2 =10nF, 50V, X7R,CAPACITORS
C3-C6 =22nF, 100V, CAPACITORS
C7 =1000pF, 2kV, CAPACITOR
R1-R4 =75 Ohms,1/16W,RESISTORS

1. MATERIALS:
PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54um MIN SAC SOLDER OR PURE TIN SOLDER DIP ON SOLDER TAILS,
CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE WITH SELECT 1.27um MIN GOLD AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME TAILS OF LED ARE PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL UNDERPLATE OVER 1.02um MIN COPPER UNDERPLATE. POST-PLATED WITH 2.54um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

2 MAGNETICS
APPLICATION: 5G BASE-T, 4PPOE
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
OPEN CIRCUIT INDUCTANCE (OCL):
ALL CHANNELS 180uH MIN @ 100KHz, 0.1 VRMS WITH 8mA DC BIAS FROM -40°C TO 85°C,
120uH MIN @ 100KHz, 0.1 VRMS WITH 23mA DC BIAS FROM -40°C TO 85°C
ALL FOUR PAIRS BI-DIRECTIONAL
POE CURRENT: 1A DC MAX
PERFORMANCE @ 25°C, PLEASE REFER TO SEPARATE SHEET.
ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

3 PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED IN APPROXIMATE AREA SHOWN.
DATE CODE: YYWWD WHERE "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY =1

4 TRP CONNECTOR LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN APPROXIMATE AREA SHOWN.

5. OPERATING TEMP: FROM -40°C TO 85°C.

6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

7 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

8 DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

9 BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE GREATER THAN 5.08mm.

10 LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. @ IF=20mA

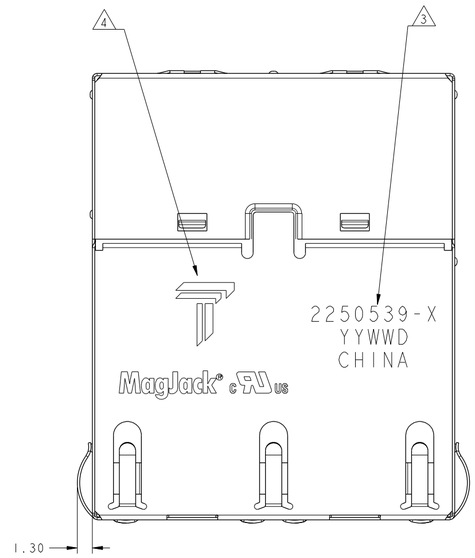
11. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

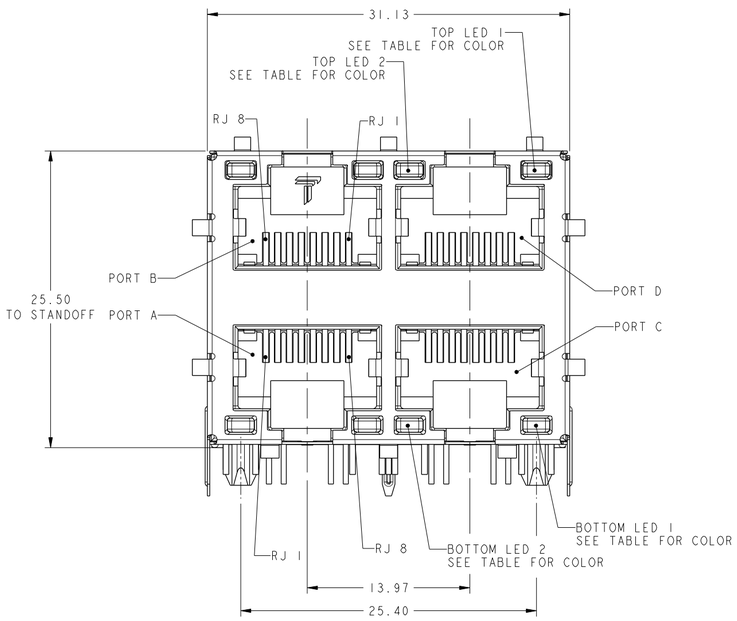
2.30	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	2250539-1
DIM A	BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER

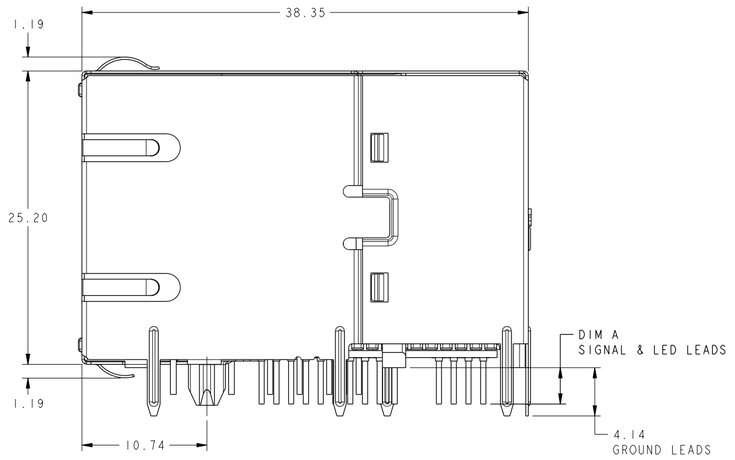
THIS DRAWING IS A CONTROLLED DOCUMENT, AND COMPLIANT TO ASME Y14.5M
DIMENSIONS: mm
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25; 1 PLC ±0.25; 2 PLC ±0.25; 3 PLC ±-; 4 PLC ±-; ANGLES ±-
PRODUCT SPEC 108-104017
APPLICATION SPEC -
DWN RICK LI 16AUG2017
CHK TOMMY REN / TERRY LIN 16AUG2017
APVD TONY YUAN 16AUG2017
MODEL NAME MAGJACK STACK 4PPOE
trp CONNECTOR a bel group — DONGGUAN CHINA
DESC 2X2 S9UFG02ET 5G 4PPOE 100W CIRCUIT, W/ LED
SIZE A1 | CAGE CODE | DRAWING NO C-2250539 | RESTRICTED TO
CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 5 | REV 1

Please read our datasheet & drawing disclaimer here.

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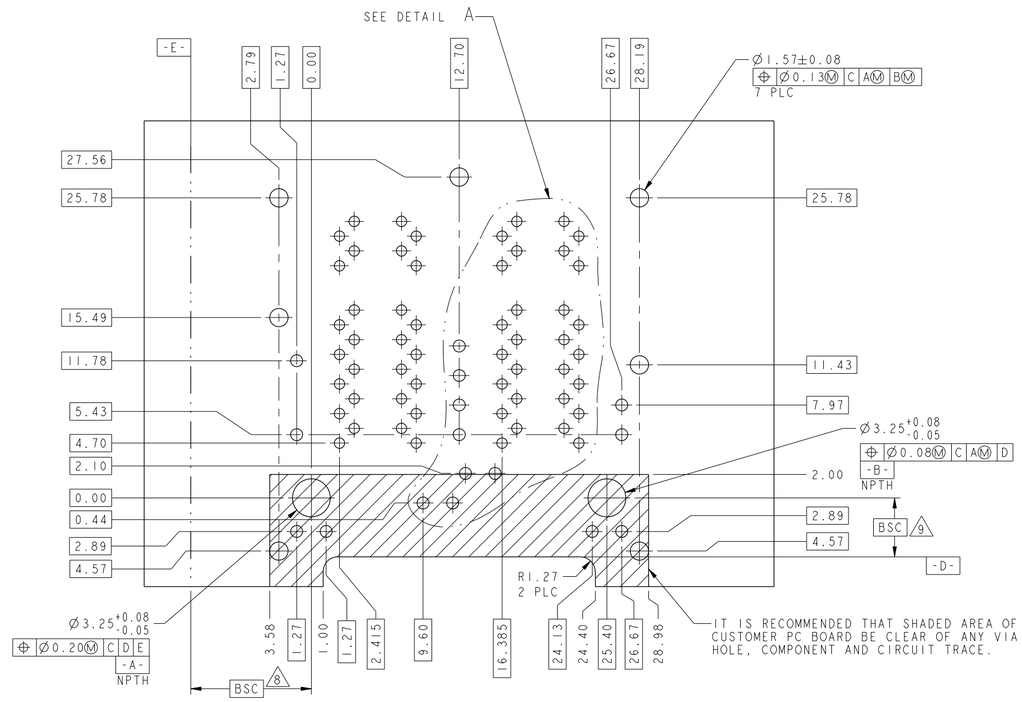




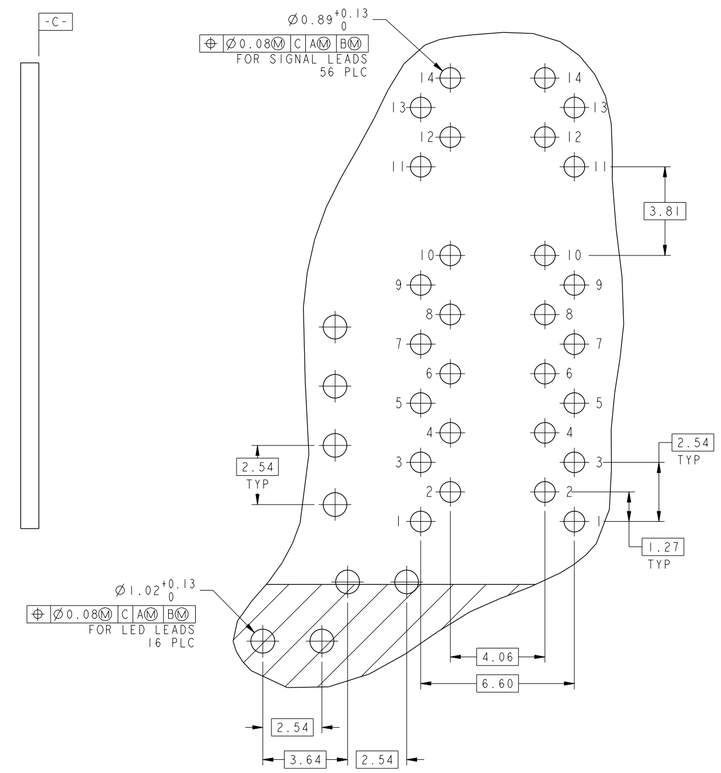


THIS DRAWING IS A CONTROLLED DOCUMENT, AND COMPLIANT TO ASME Y14.5M		DWN RICK LI 16AUG2017	trp CONNECTOR a bel group — DONGGUAN CHINA
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25, 1 PLC ±0.25, 2 PLC ±0.25, 3 PLC ±·, 4 PLC ±·, ANGLES ±·	CHK TOMMY REN / TERRY LIN 16AUG2017	
		APVD TONY YUAN 16AUG2017	
PRODUCT SPEC 108-104017	APPLICATION SPEC -	MODEL NAME MAGJACK STACK 4PPOE	DESC 2X2 S9UFG02ET 5G 4PPOE 100W CIRCUIT, W/ LED
		SIZE A1 / CAGE CODE / DRAWING NO C-2250539	RESTRICTED TO
CUSTOMER DRAWING		SCALE NTS	SHEET 2 OF 5 — REV 1

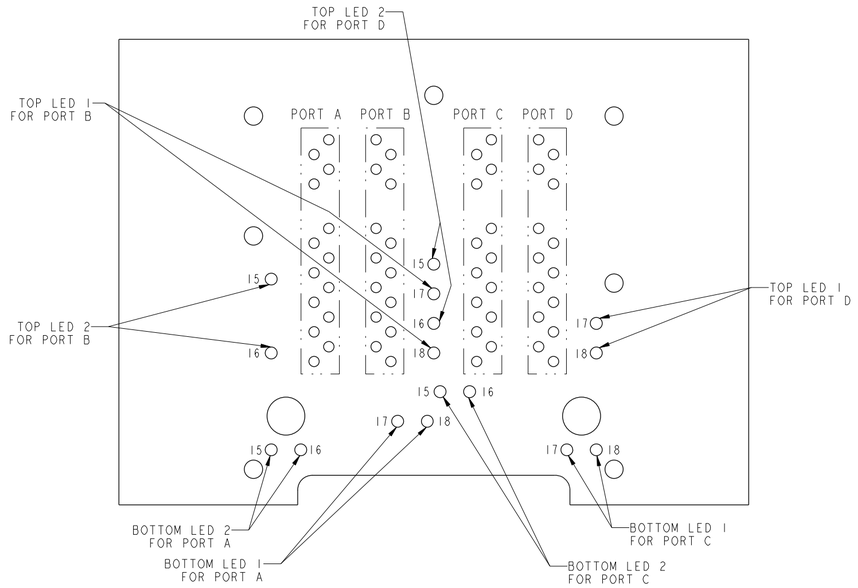
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RECOMMENDED PCB LAYOUT
COMPONENT SIDE VIEW

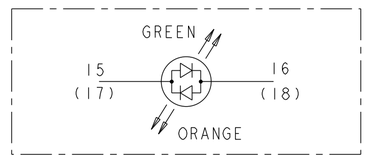


DETAIL A
SCALE 8:1



PORT ASSIGNMENT & LED HOLE DESIGNATIONS
COMPONENT SIDE VIEW

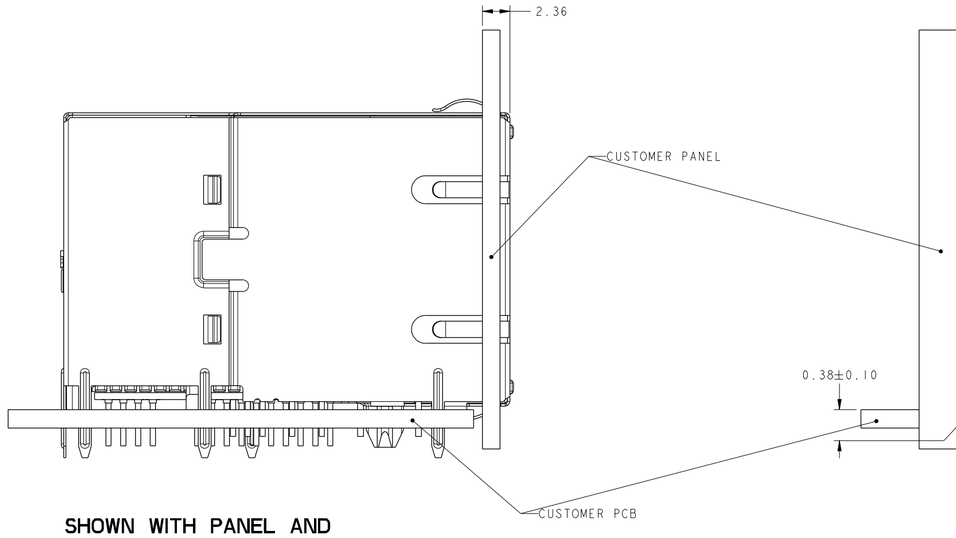
BI-COLOR LED 10



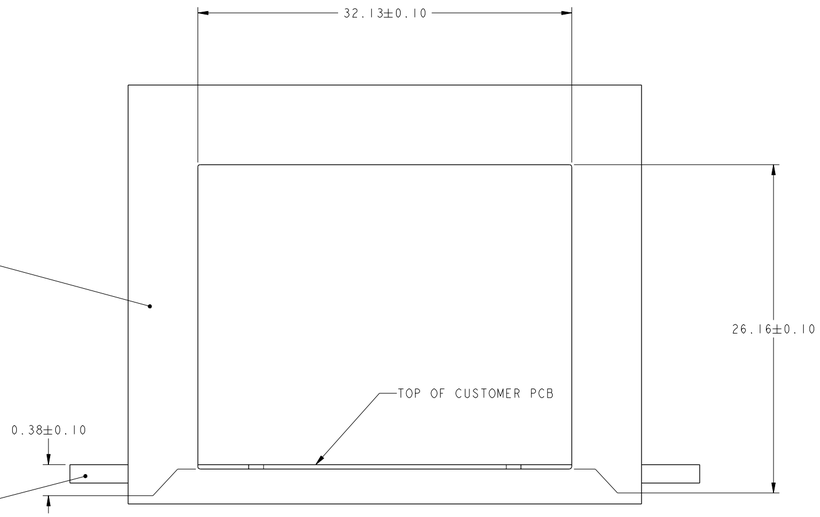
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN RICK LI 16AUG2017	trp CONNECTOR a bel group — DONGGUAN CHINA
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25; 1 PLC ±0.25; 2 PLC ±0.25; 3 PLC ±·; 4 PLC ±·; ANGLES ±·	CHK TOMMY REN / TERRY LIN 16AUG2017	DESC 2X2 S9UFG02ET 5G 4PPOE 100W CIRCUIT, W/ LED
		APVD TONY YUAN 16AUG2017	
PRODUCT SPEC 108-104017	APPLICATION SPEC -	MODEL NAME MAGJACK STACK 4PPOE	SIZE A1 · CAGE CODE · DRAWING NO C⇨2250539 · RESTRICTED TO
		CUSTOMER DRAWING	SCALE NTS · SHEET 3 OF 5 · REV I

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SHOWN WITH PANEL AND
CUSTOMER PCB ASSEMBLY



SUGGESTED PANEL CUTOUT DIMENSIONS

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DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25, 1 PLC ±0.25, 2 PLC ±0.25, 3 PLC ±·, 4 PLC ±·, ANGLES ±·	CHK TOMMY REN / TERRY LIN 16AUG2017	DESC 2X2 S9UFG02ET 5G 4PPOE 100W CIRCUIT, W/ LED
PRODUCT SPEC 108-104017	APPLICATION SPEC -	APVD TONY YUAN 16AUG2017	SIZE A1 · CAGE CODE · DRAWING NO C⇨2250539 · RESTRICTED TO
		MODEL NAME MAGJACK STACK 4PPOE	CUSTOMER DRAWING · SCALE NTS · SHEET 4 OF 5 · REV I

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2250539					STOCK DISPOSITION			
2X2 S9UFG02ET 5G 4PPOE 100W CIRCUIT, W/ LED					A: CONTINUE AS IS B: REWORK C: SCRAP		D: USE OLD FIRST E: PARTS TO CONFORM F: OTHER	
REVISION HISTORY								
DATE	REV	CHANGES	REASON	APPROVAL	INVENTORY (A,B,C,D,E,F)	WORK IN PROCESS (A,B,C,F)	SUPPLIER ORDERS (A,E,F)	OPEN CUST ORDERS (A,E,F)
16AUG2017	1	-	INITIAL RELEASE	TY	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT, AND COMPLIANT TO ASME Y14.5M

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±-
4 PLC ±-
ANGLES ±-

PRODUCT SPEC: 108-104017

APPLICATION SPEC: -

DWN 16AUG2017 RICK LI
CHK 16AUG2017 TOMMY REN / TERRY LIN
APVD 16AUG2017 TONY YUAN

MODEL NAME: MAGJACK STACK 4PPOE

trp CONNECTOR a bel group — DONGGUAN CHINA

DESC: 2X2 S9UFG02ET 5G 4PPOE 100W CIRCUIT, W/ LED

SIZE A1 | CAGE CODE | DRAWING NO: C⇨2250539 | RESTRICTED TO

CUSTOMER DRAWING | SCALE NTS | SHEET 5 OF 5 | REV 1

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