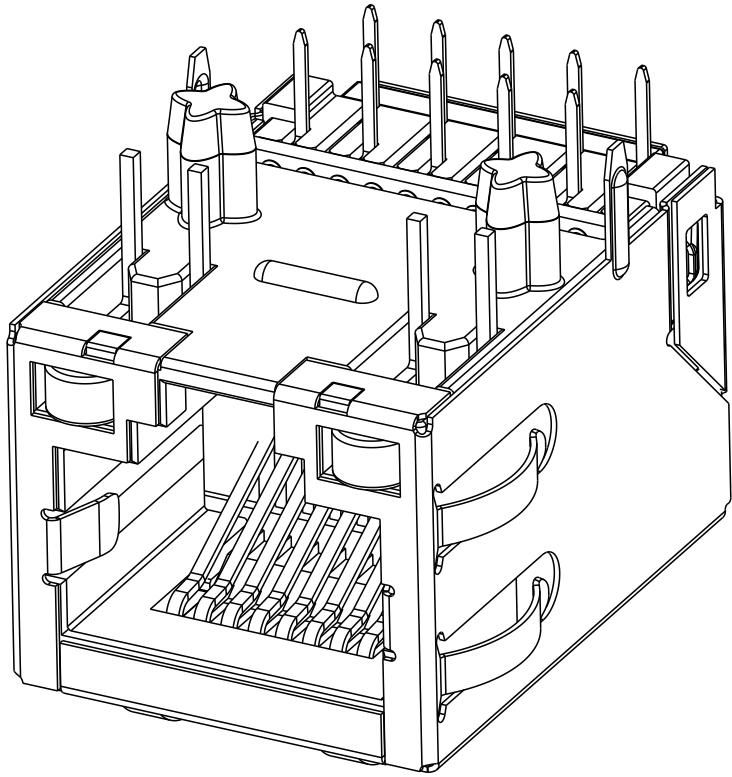
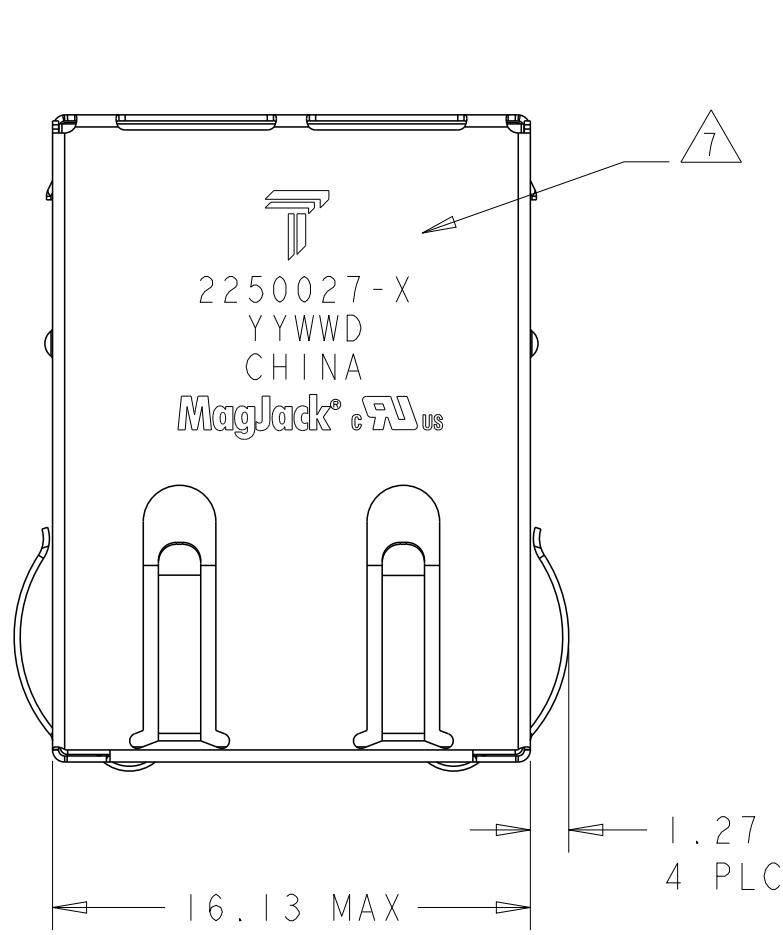


87654321

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
2		SEE LAST SHEET	14JAN2015	RL TY



1. MATERIALS
- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS 0.20mm THICK, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 2.54um MIN SAC SOLDER.
 - CONTACTS: PHOSPHOR BRONZE 0.46mm X 0.30mm, PHOSPHOR BRONZE, 1.27um MIN NICKEL UNDERPLATE, WITH 1.27um MIN GOLD PLATING AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
 - SOLDER TAILS: 0.25mmTHICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, 3um TIN PLATE
 - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN. SILVER PLATE OVER 1.02um MIN. NICKEL OVER 1.02um MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05um MIN. MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

2 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUB PART F.

- 3 MAGNETICS
- APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN. @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25°C:
 - INSERTION LOSS (IL): 1.1dB MAX. FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20LOG(f/80)dB MIN. FROM 40.1MHz TO 100MHz
 - CROSSTALK ATTENUATION: 35dB MIN. FROM 0.5MHz TO 40MHz
 - 33-20LOG(f/50)dB MIN. FROM 40.1MHz TO 100MHz
 - COMMON MODE REJECTION RATIO (CMRR):30dB MIN. FROM 0.5MHz TO 100MHz
 - ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500 V/SEC

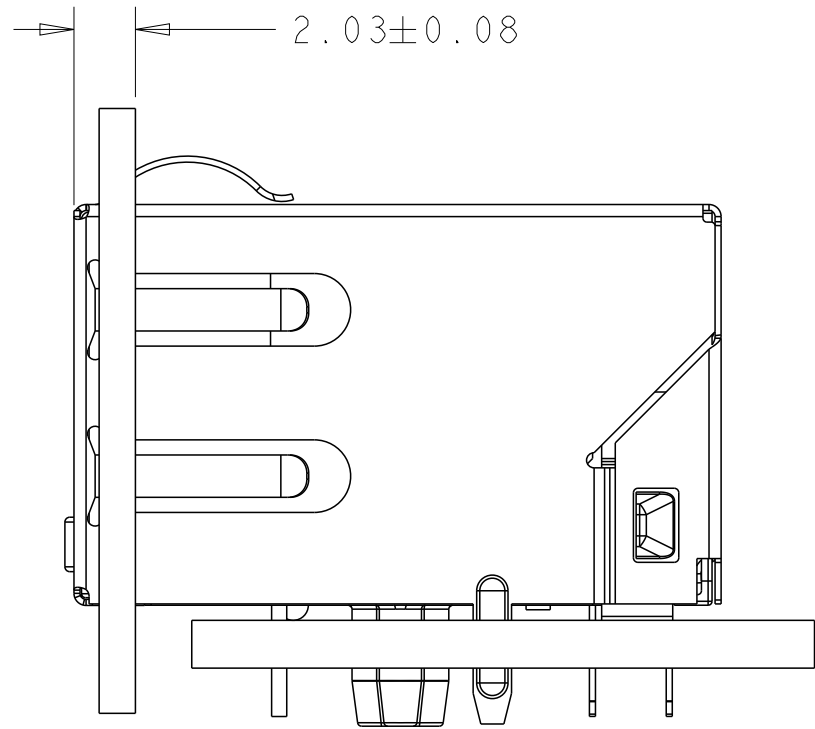
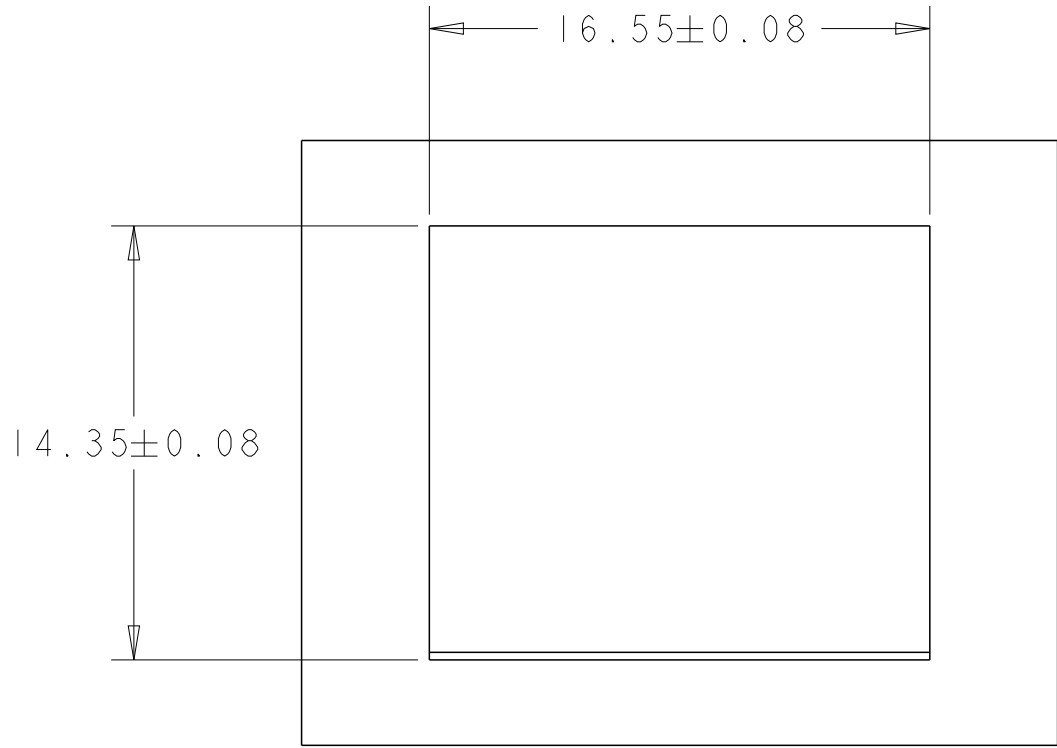
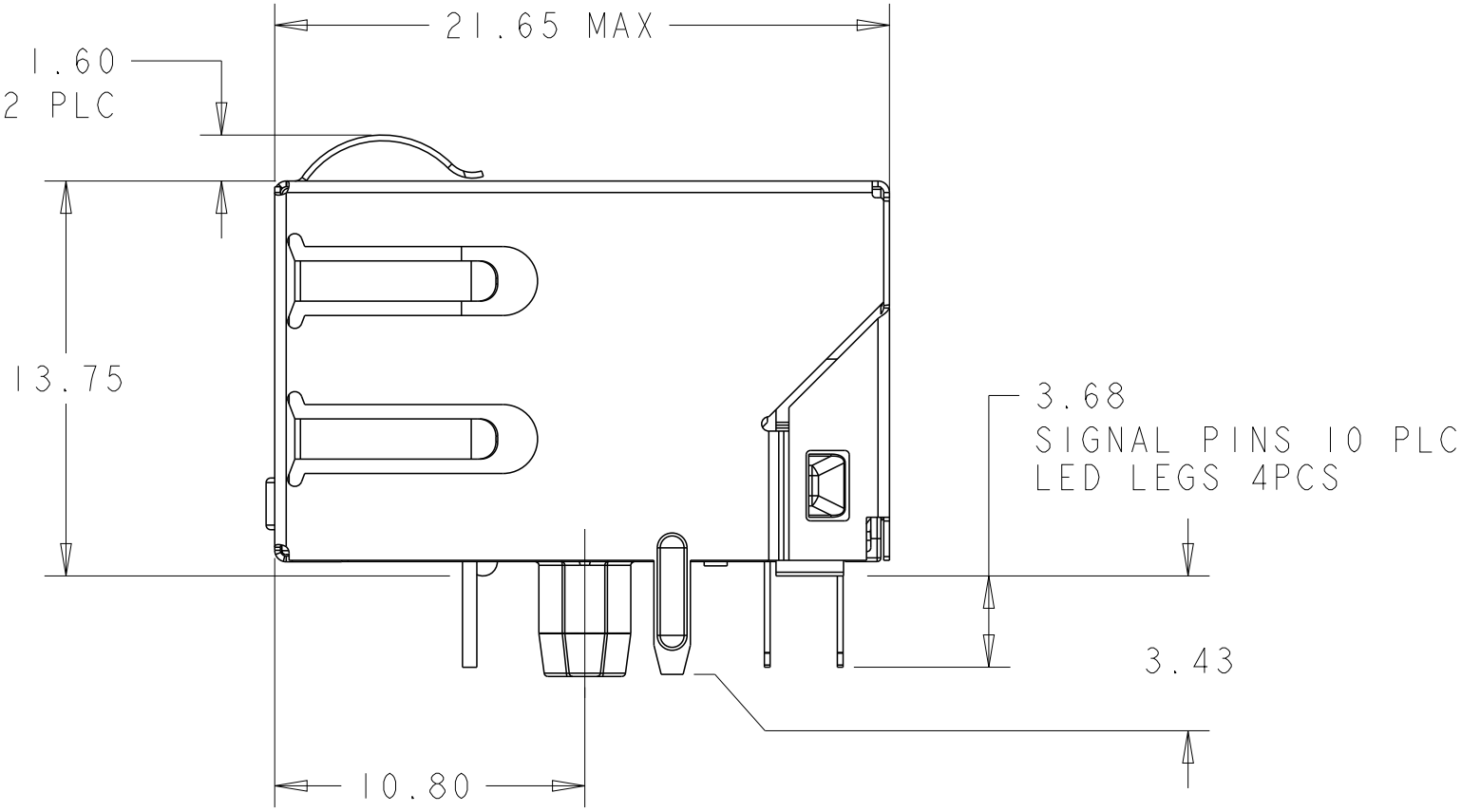
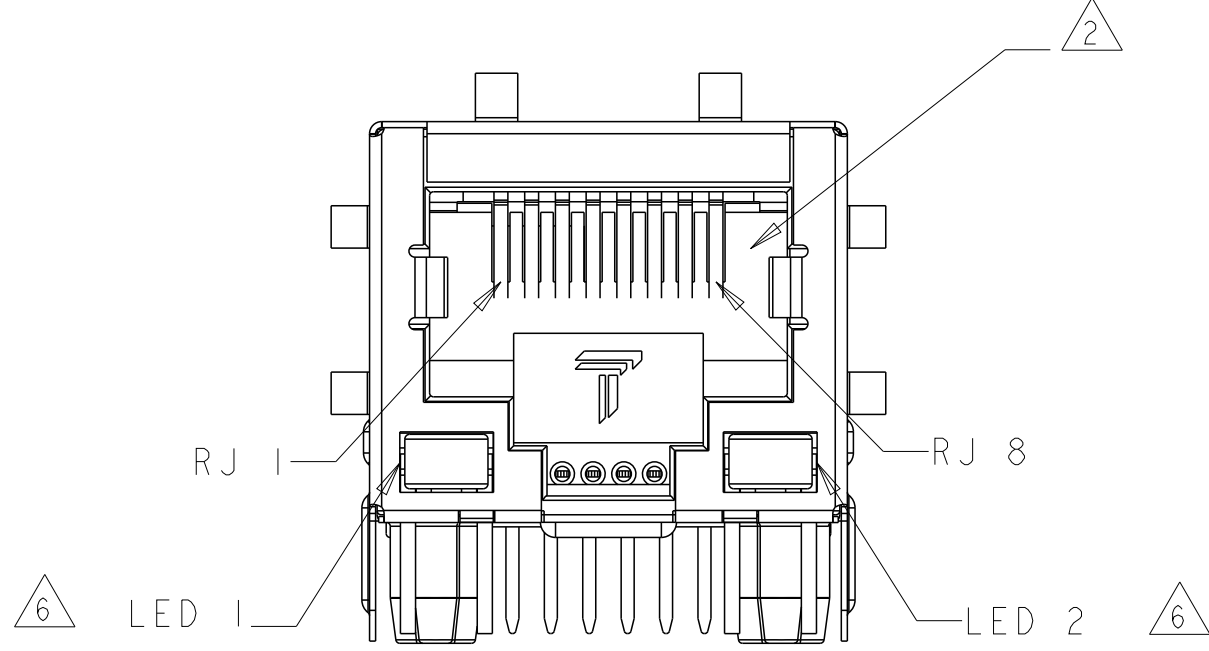
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

5 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.

- 6 THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS. IF LEDS WITHOUT 250 OHM RESISTORS. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF = 20mA
DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF = 20mA
- IF LEDS WITH BUIL-IN 250 OHM RESISTORS. LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP @ VF=5V
FORWARD CURRENT (IF): GREEN 12mA TYP @ VF = 5V
DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP @ VF=5V
FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF = 5V

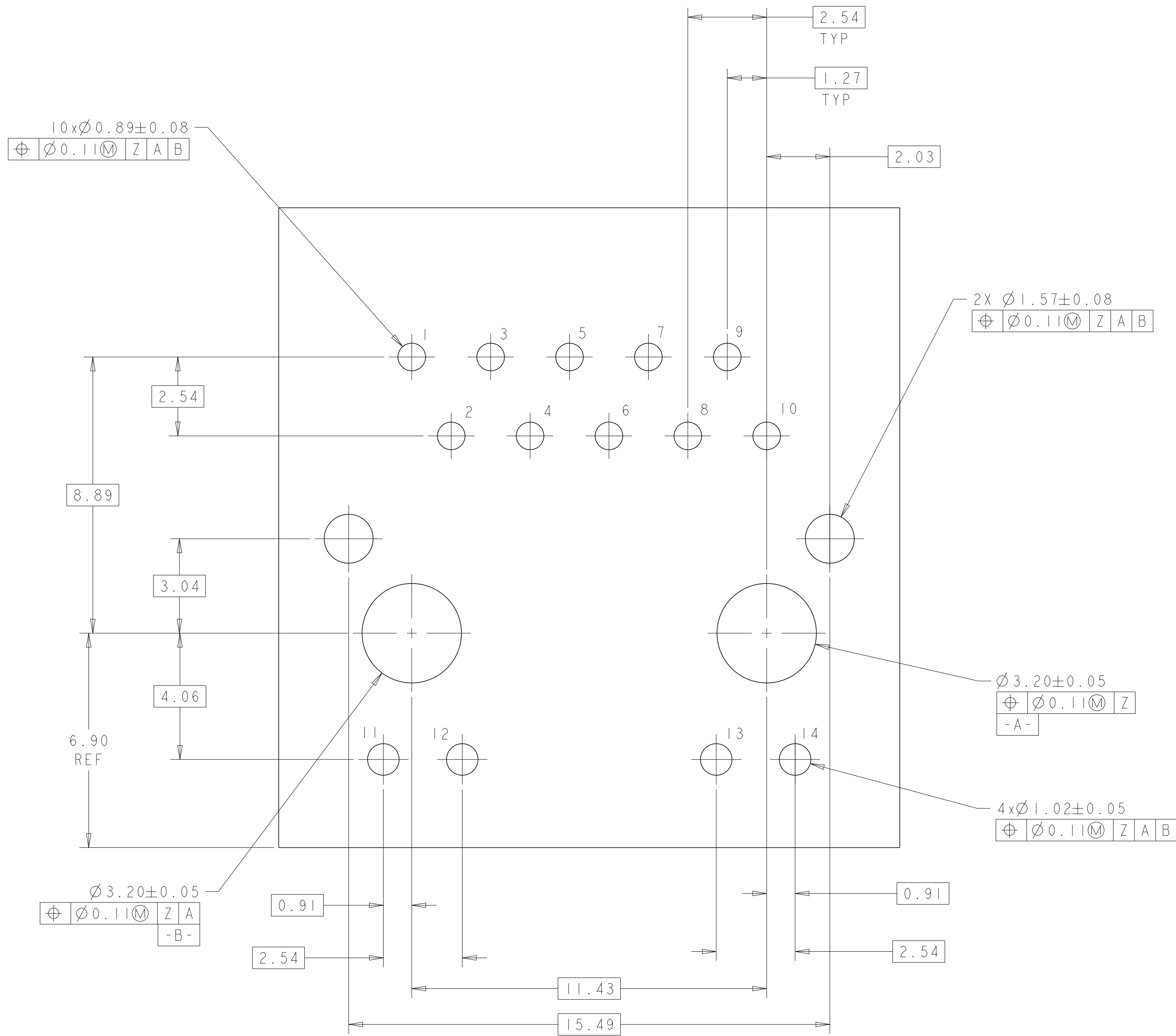
7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.



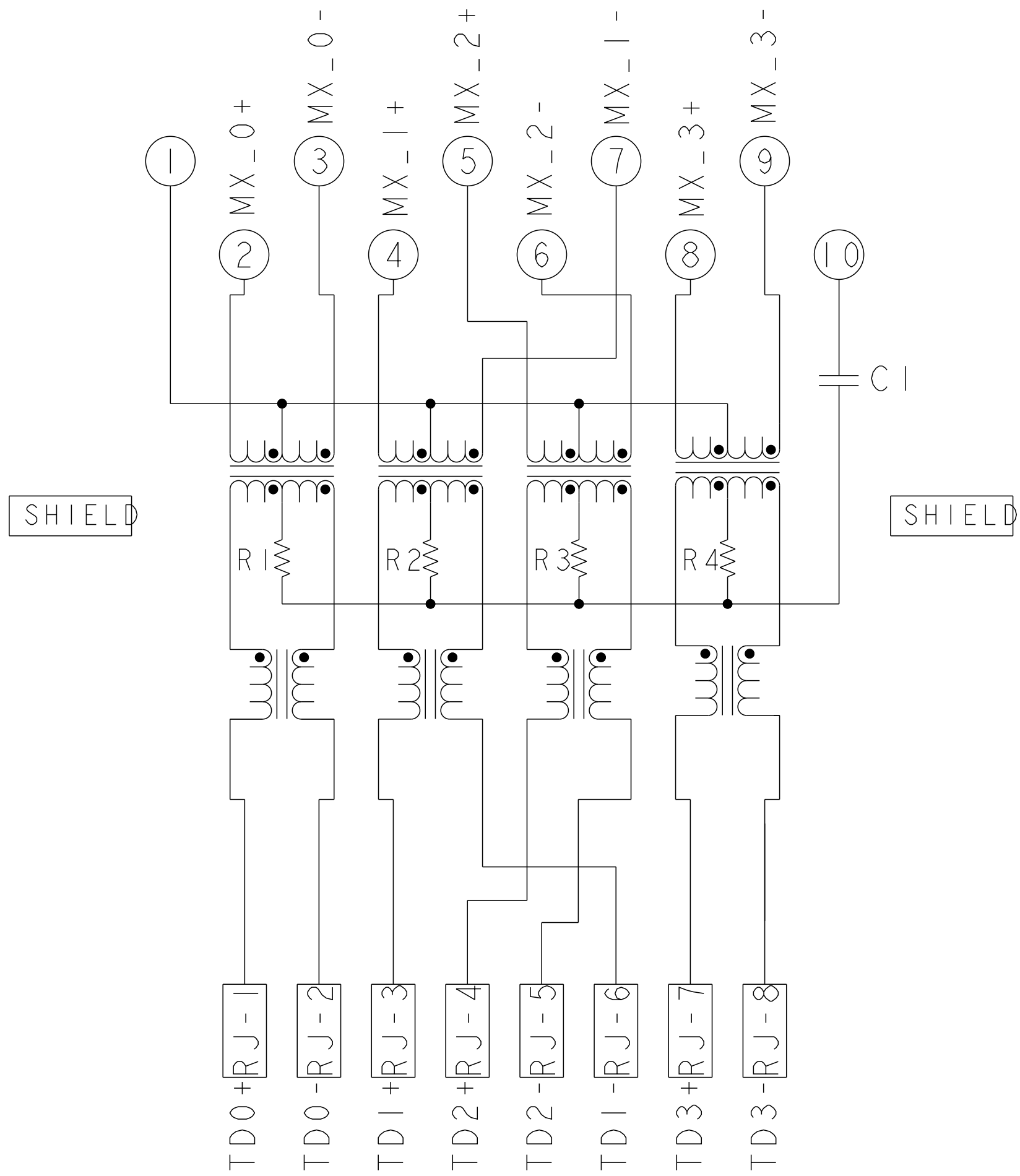
SUGGESTED PANEL CUTOUT
SCALE 4:1

GREEN	-	NO	YELLOW	-	NO	2250027-3
GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250027-2
GREEN	YELLOW	NO	GREEN	-	YES	2250027-1
11	12	250 OHMS RESISTOR	13	14	250 OHMS RESISTOR	PART NUMBER
LED 1			LED 2			
THIS DRAWING IS A CONTROLLED DOCUMENT. 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 108-104004 APPLICATION SPEC -			DWN ROY LIU 31MAY2013 CHK TOWER YU/FRANK LIU 31MAY2013 APVD TONY YUAN 31MAY2013 MODEL NAME MAGJACK DESC SINGLE Non-PoE SIZE A1 CAGE CODE DRAWING NO C=2250027 RESTRICTED TO - CUSTOMER DRAWING SCALE 4:1 SHEET 1 OF 3 REV 2			trp CONNECTOR a bel group DONGGUAN CHINA

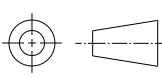


SUGGESTED PCB LAYOUT
COMPONENT SIDE

4G145 GIGABIT MAGNETIC CIRCUIT $\triangle 3 \triangle 5$



CI=1000pF. 2kV, CAPACITOR
R1-R4 = 75 OHMS, RESISTORS

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN ROY LIU 31MAY2013	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS:		CHK TOWER YU/FRANK LIU 31MAY2013				
mm		APVD TONY YUAN 31MAY2013				
		MODEL NAME MAGJACK				
PRODUCT SPEC 108-104004		SINGLE Non-PoE		SIZE A1		RESTRICTED TO -
TOLERANCES UNLESS OTHERWISE SPECIFIED:		DESC 1X1 4G145 GIGABIT TAB DOWN W/ LED		CAGE CODE C=2250027		
ANGLES APPLICATION SPEC		CUSTOMER DRAWING		SCALE 4:1		SHEET 2 OF 3
						REV 2

D

D

C

C

B

B

A

A

C-2250027					STOCK DISPOSITION			
					A: CONTINUE AS IS B: REWORK C: SCRAP		D: USE OLD FIRST E: PARTS TO CONFORM F: OTHER	
REVISION HISTORY					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)
DATE	REV	CHANGES	REASON	APPROVAL				
31MAY2013	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
14JAN2015	2	EC-1411035 COMPANY LOGO CHANGE	MARKET REQUIREMENT	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.25

1 PLC ±0.25

2 PLC ±0.25

3 PLC ±

4 PLC ±

ANGLES

APPLICATION SPEC

DWN ROY LIU31MAY2013

CHK TOWER YU/FRANK LIU31MAY2013

APVD TONY YUAN31MAY2013

MODEL NAME

MAGJACK

SINGLE Non-PoE

C=2250027

CUSTOMER DRAWING

SCALE 4:1

SHEET 3 OF 3

REV 2

trpCONNECTOR

a bel group

DONGGUAN CHINA

DESC

1X1 4G145 GIGABIT
TAB DOWN W/ LED

SIZE

A1

CAGE CODE

DRAWING NO

RESTRICTED TO

-

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