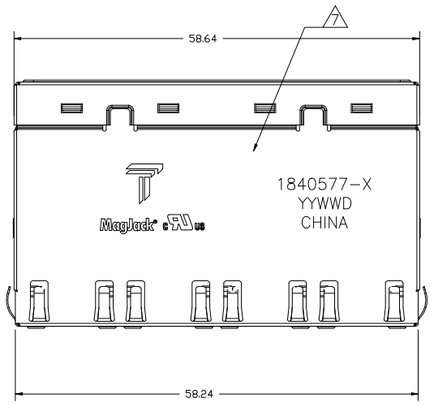
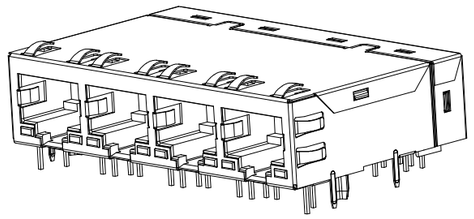
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

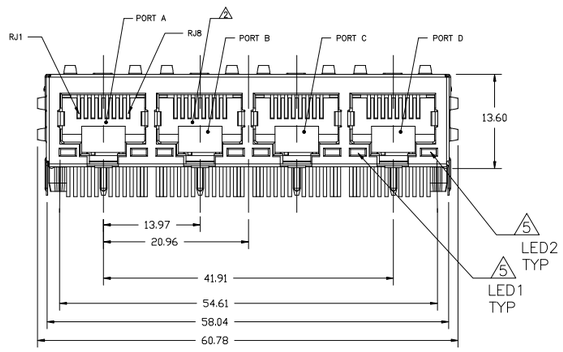
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

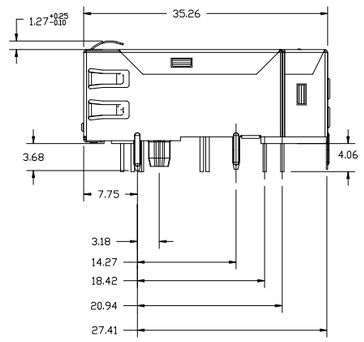
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	4	EC-1411035 COMPANY LOGO CHANGE	08JAN2015	QL	TY

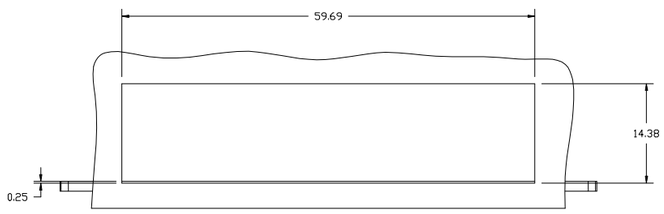




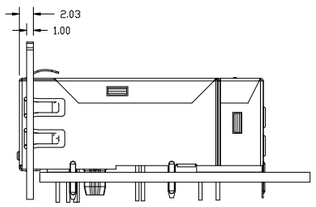
SCALE 2:1







SUGGESTED PANEL CUTOUT
SCALE 2:1



CONNECTOR ASSEMBLED
TO PANEL AND PCB
SCALE 2:1

1 MATERIAL
HOUSING: THERMOPLASTIC BLACK, FLAMMABILITY RATING UL 94V-O
SHIELD: 0.20mm THICK, BRASS
PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
POST-DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.
CONTACT TAILS: PHOSPHOR BRONZE, 0.46mmX0.30mm
WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE
SOLDER TAIL: COPPER CLADDED STEEL, 0.50mm SQUARE
PLATED WITH 2.54um MIN MATTE TIN
LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, 0.50mm x 0.50mm CARBON STEEL
WIREFRAME LEADS PREPLATED WITH 2.0um SILVER OVER 1.0um NICKEL
UNDERPLATE OVER 1.0um COPPER UNDERPLATE; POST-PLATED WITH 2.54um
MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.

△2 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.

△3 MAGNETICS
-APPLICATION: 10/100/1000 BASE-T, PoE PLUS
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
-OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
20mADC BIAS FROM 0℃ TO 70℃, ACROSS RJ4-RJ5 & RJ7-RJ8
8mADC BIAS FROM 0℃ TO 70℃, ACROSS RJ1-RJ2 & RJ3-RJ6
-ALL FOUR PAIRS BI-DIRECTIONAL
-POE CURRENT: 600mADC MAX
-PERFORMANCE @ 25℃:
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: 1500VAC (MAX) AT 60Hz FOR 60 SECS WITH ALL PORTS CONNECTED.

4. OPERATING TEMPERATURE: 0°C TO 70°C

△5 LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA

△6 THE MAGNETIC CIRCUIT IS SYMMETRICAL TO SUPPORT AUTO-MDIX OOPERATION.

△7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, PLACE OF ORIGIN TO BE MARKED IN APPROXIMATE LOCATION AS SHOWN.

8. THE PART IS 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.

△9 THE PART HAS NOT COMPLETED QUALIFICATION TESTING.

GREEN/YELLOW	GREEN/YELLOW	1840577-6
LED2	LED1	PART NUMBER

THIS PRINT IS
PRELIMINARY
UNQUALIFIED PRODUCT
CONTACT PRODUCT ENGINEERING
BEFORE USING THIS PRINT

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 ± 0.25
4 PLC ± 0.25
ANGLES ± 1°

PRODUCT SPEC △9
APPLICATION SPEC –

DWN VKIN LEE 19NOV09
CHK QUENTIN LIU 19NOV09
APVD LIJUN RAO 19NOV09

trp CONNECTOR a bel group
DONGGUAN CHINA

MODEL NAME: MAGJACK GANG / POE PLUS

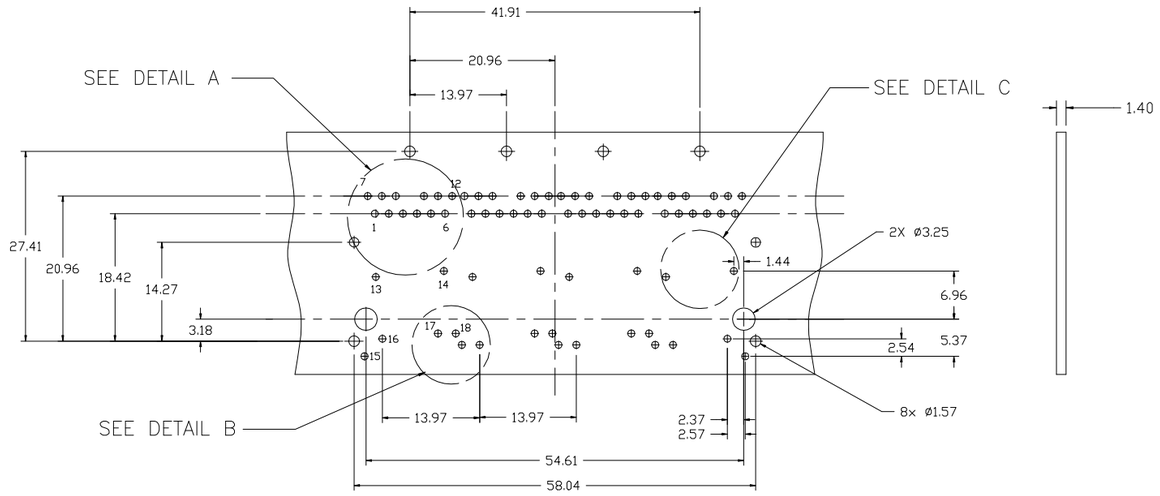
DESC: 1X4 8HG61 GIGABIT PoE+ TAB DOWN LOW PROFILE W/O LED

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C-1840577	–

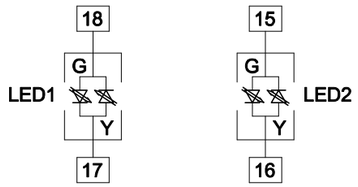
CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 2 | REV 4

TRP Connector

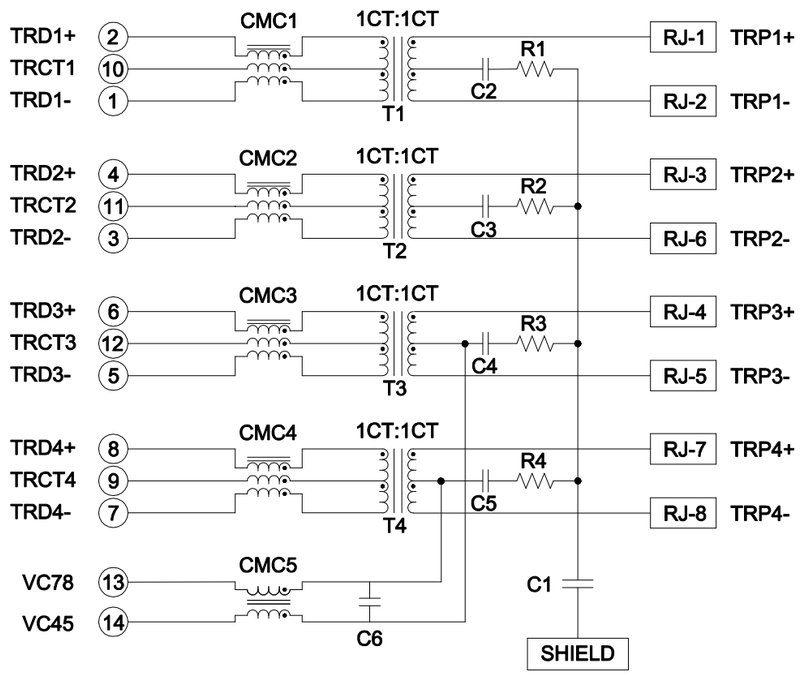
Please read our datasheet & drawing disclaimer here.



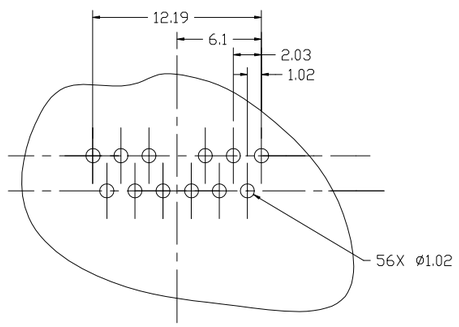
SUGGESTED PCB FOOTPRINT
COMPONENT SIDE
SCALE 2:1



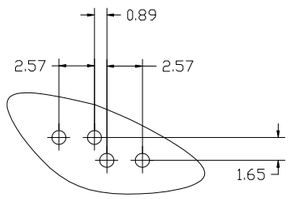
8HG61 Gigabit PoE Circuit



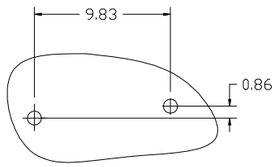
C1=1000PF,2KV,±10%,X7R DECOUPLING CAPACITOR
R1~R4=75Ohm,1\16W,±5%,RESISTORS
C2 - C5 = 22nF, 100V,±10% CAPACITORS
C6 = 0.1uF, 100V,±10% CAPACITOR



DETAIL A
SCALE 2:1



DETAIL B
SCALE 2:1



DETAIL C
SCALE 2:1

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BEFORE USING THIS PRINT

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DIMENSIONS: MM

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

PRODUCT SPEC —
APPLICATION SPEC —

DWN VKIN LEE 19NOV09
CHK QUENTIN LIU 19NOV09
APVD LIJUN RAO 19NOV09

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK GANG / POE PLUS

DESC: 1X4 8HG61 GIGABIT PoE+ TAB DOWN LOW PROFILE W/O LED

SIZE A1 | CAGE CODE | DRAWING NO C-1840577 | RESTRICTED TO —

CUSTOMER DRAWING | SCALE NTS | SHEET 2 OF 2 | REV 4

TRP Connector