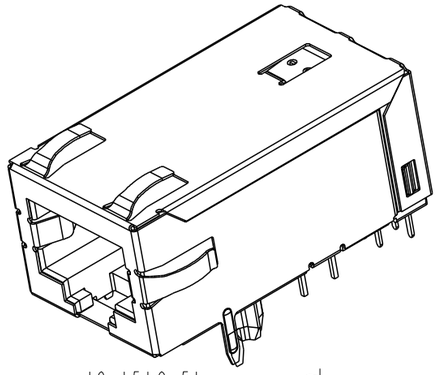
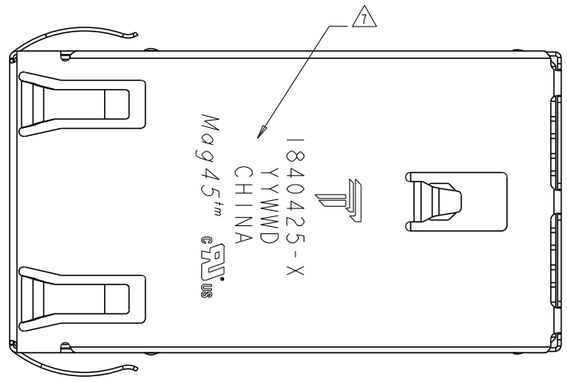
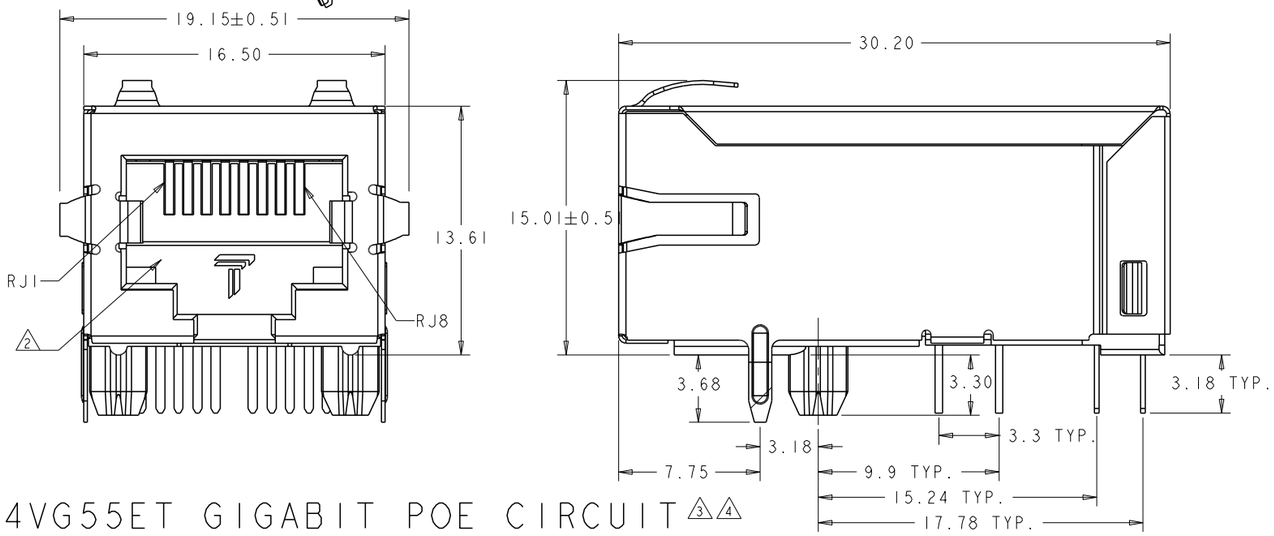
© COPYRIGHT TRP connector ALL RIGHTS RESERVED

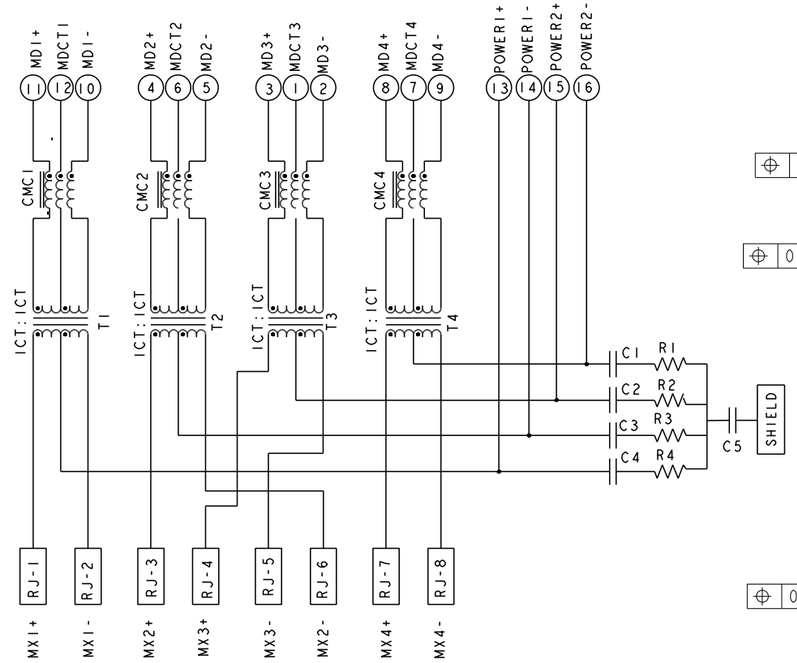
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	C	LOGO CHANGE	25APR2013	TY	KZ







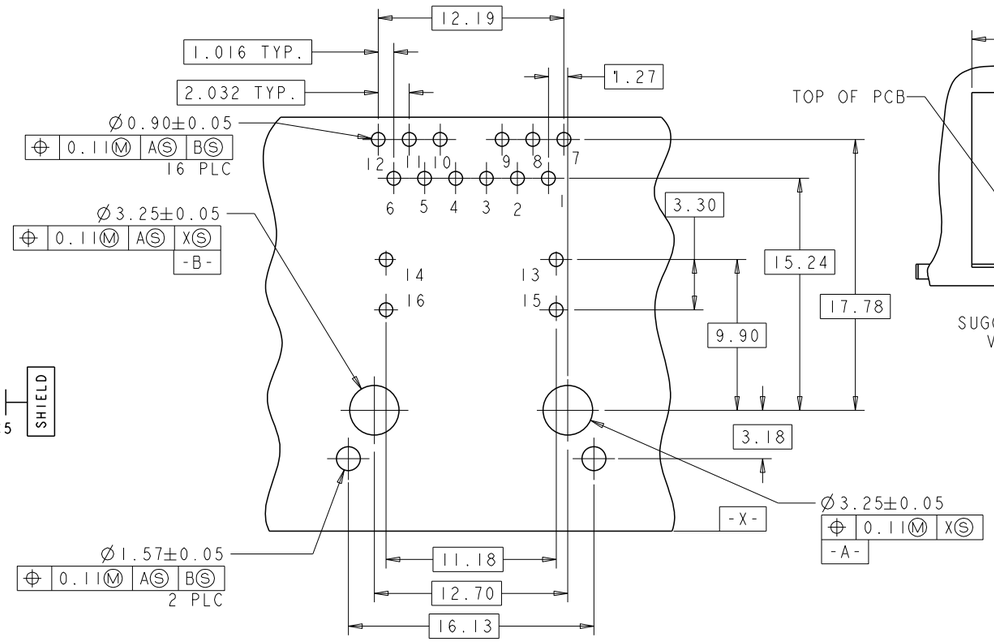
S4VG55ET GIGABIT POE CIRCUIT 3 4



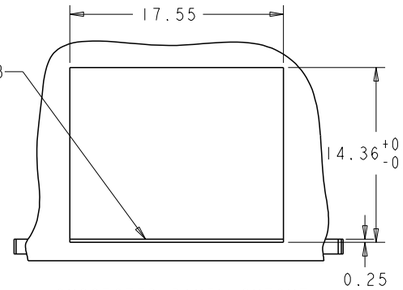
R1 - R4 = 75 OHMS, 1/16W, 5% RESISTORS

C1- C4 = 22nF, 250V CAPACITORS

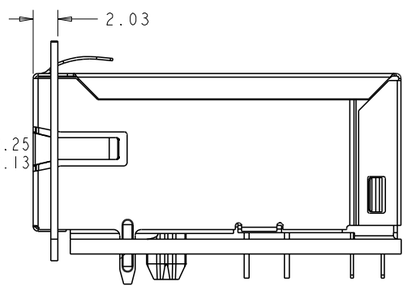
C5 = 1000pF, 3KV CAPACITOR



RECOMMENDED CUSTOMER PCB
COMPONENT SIDE
(TOP VIEW)



SUGGESTED PANEL CUTOUT
VS CUSTOMER BOARD



1 MATERIALS:
- HOUSING: PBT, BLACK, UL 94V-O
- SHIELD: 0.20mm THICK, BRASS PREPLATED WITH 0.76 µm MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2.54µm MIN LEAD FREE SOLDER
- CONTACT TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 µm MIN OVERALL NICKEL UNDERPLATE, 2.54µm MIN TIN PLATE
- MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 µm MIN OVERALL NICKEL UNDERPLATE WITH 1.27 µm MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE

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

3 MAGNETICS
- APPLICATION: 10/100/1000 BASE-T, EXTENDED TEMPERATURE, PoE
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- POE CURRENT: 350mADC MAX
- 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: COMPLIES WITH IEEE802.3af 2003, PARA 33.4.1, ITEM a.

4 THE MAGNETICS ARE SYMMETRICAL, AND SUPPORT AUTO-MDI/MDIX

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

6. ALL DIMENSIONS NOMINAL UNLESS OTHERWISE NOTED.

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, PEAK WAVE SOLDERING TEMPERATURE IS 265°C, 10 SECONDS MAX.

1840425-2
PART NO.

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 ±1

MATERIAL : 1

FINISH : 1

DWN	JALU XU	11DEC2006
CHK	KEITH ZHU	11DEC2006
APVD	TEDDY XIONG	11DEC2006
PRODUCT SPEC	-	
APPLICATION SPEC	-	
WEIGHT	-	

TRP connector
Dongguan China

NAME: 1X1 MAG45(TM) JACK,4VG45 GIGABIT POE ET, SHIELD, W/O LED,TAB DOWN

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C- 1840425	-

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