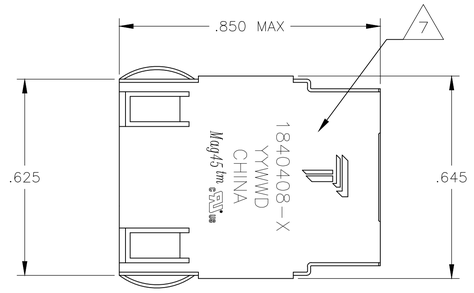
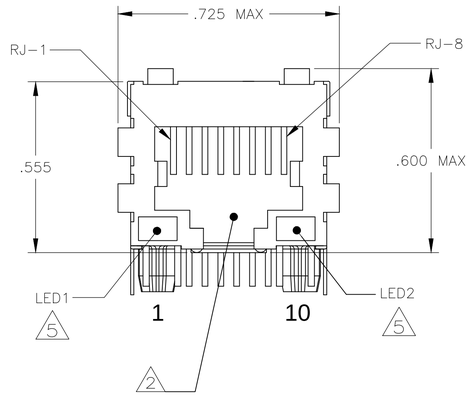
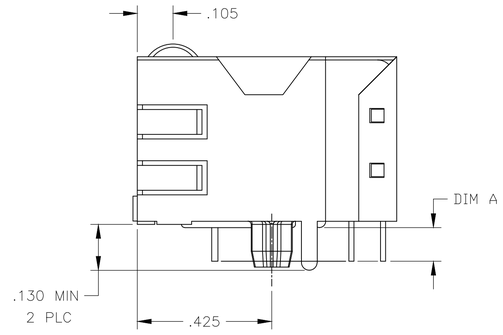
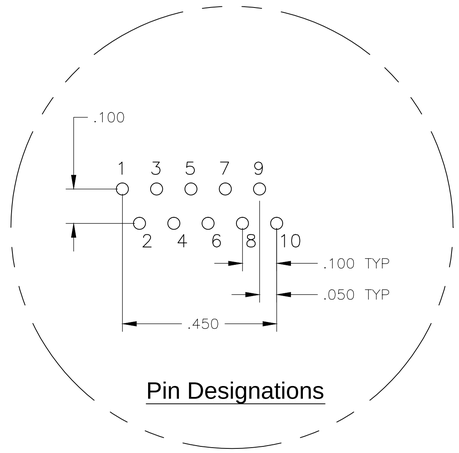
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	C	LOGO CHANGE	07APR2013	PP	KZ

MECHANICAL:





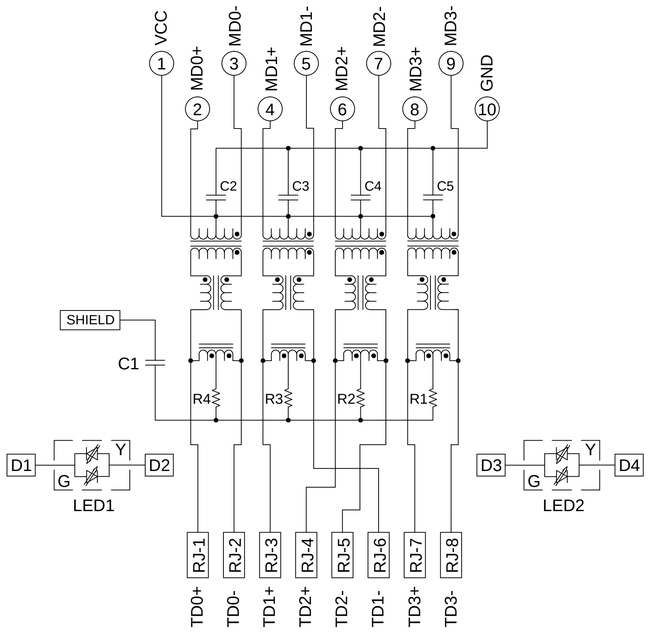




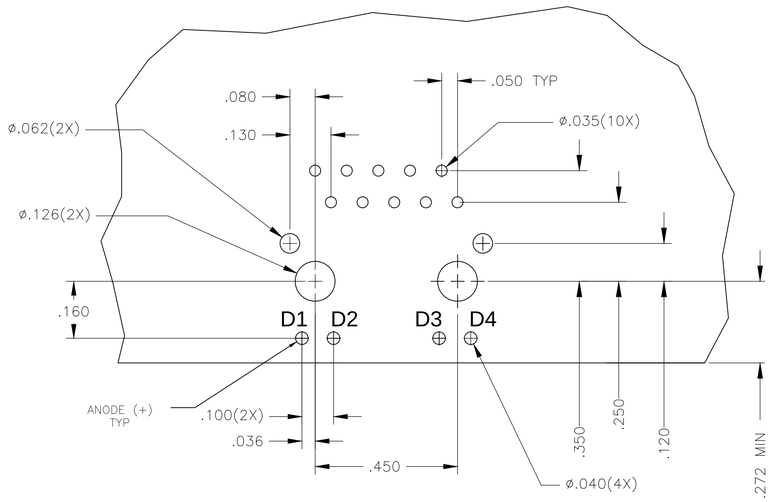
Pin Designations

ELECTRICAL:

4G05ETP1 Series GIGABIT Magnetic Circuit △3 △6



R1–R4=75 OHMS,1/16W,5% RESISTORS.
C1=1000 pF, 2kV DECOUPLING CAPACITOR.
C2–C5=0.1uF,5%,50V,X7R,CAPACITORS



Suggested PCB Layout
(Component Side)

△1 MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30uINCH SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100uINCH MIN SAC SOLDER.
MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50uINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50uINCH MIN HARD GOLD FINISH PLATE SOLDERTAILS WITH 100uINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" x .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80uINCH SILVER OVER 40uINCH NICKEL UNDERPLATE OVER 40uINCH COPPER UNDERPLATE. POST-PLATED WITH 100uINCH 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, EXTENDED TEMPERATURE
-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
-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 IEEE802.3 2002, PARA 40.6.1.1, ITEM a or b.

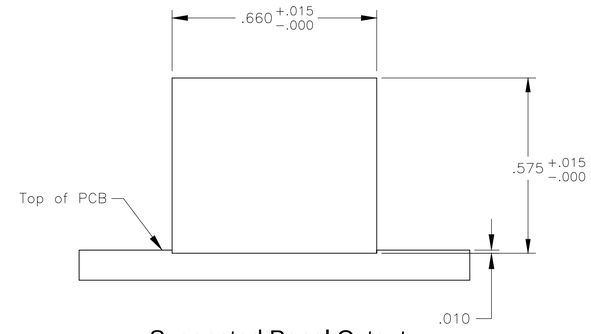
4. OPERATING TEMPERATURE: FROM -40°C TO +85°C

△5 LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
LED COLOR: DOMINANT WAVELENGTH (λ D): GREEN 568 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λ D): YELLOW 588 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA

△6 THE MAGNETICS ARE SYMMETRIC, AND SUPPORT AUTO-MDI/MDIX.

△7 TRP CONNECTOR LOGO,TE CONNECTIVITY 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 MAX,10 SEC MAX.



Suggested Panel Cutout

DIMENSION A	LED1 △5	LED2 △5	PART NUMBER
.145±.010	GREEN/YELLOW	GREEN/YELLOW	2-1840408-6
.090±.010	GREEN/YELLOW	GREEN/YELLOW	1840408-6

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± .010
3 PLC ± .005
4 PLC ± –
ANGLES ± –
FINISH △1

MATERIAL △1

DWN CLOUD.ZENG 29MAY2006
CHK MICHAEL.ZHANG 29MAY2006
APVD TEDDY.XIONG 29MAY2006
PRODUCT SPEC 108-2100
APPLICATION SPEC –
WEIGHT –

TRP connector
Dongguan China

TITLE MAG45(TM), 4G4P1 SCHEMATIC(10 PIN FOOTPRINT), 4G05ETP1 SERIES GIGABIT CIRCUIT, SHIELDED, WITH LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1840408	–

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