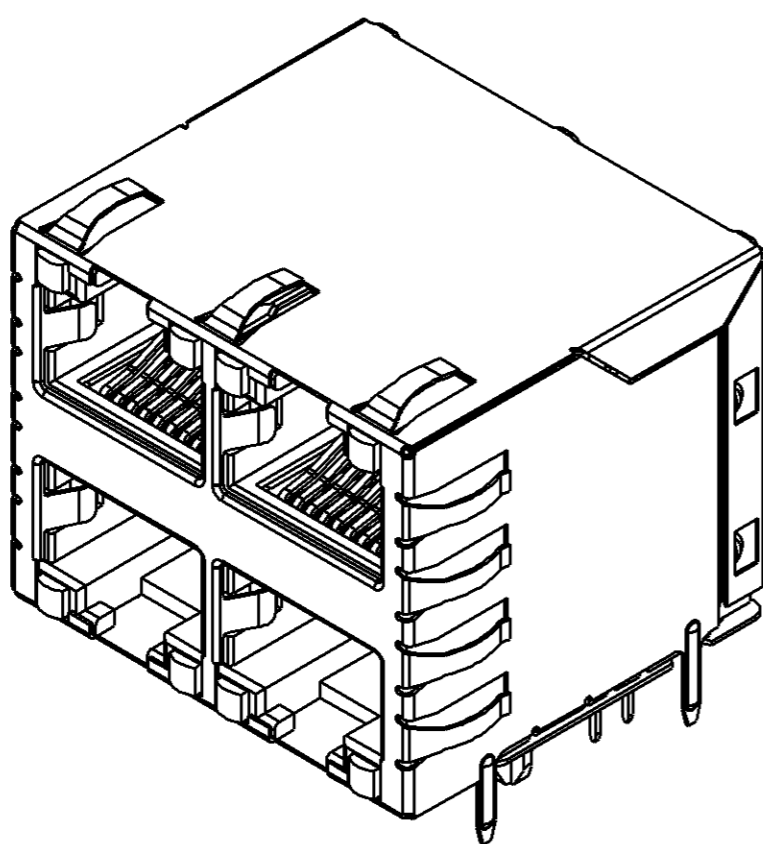


REVISONS		DATE	BY	APP'D
B	ECO-08-012525	12MAY2008	OL	TX
C	ECO-08-022232	08SEP2008	PL	TX
D	ECO-11-019412	20JUN2011	PP	LJ

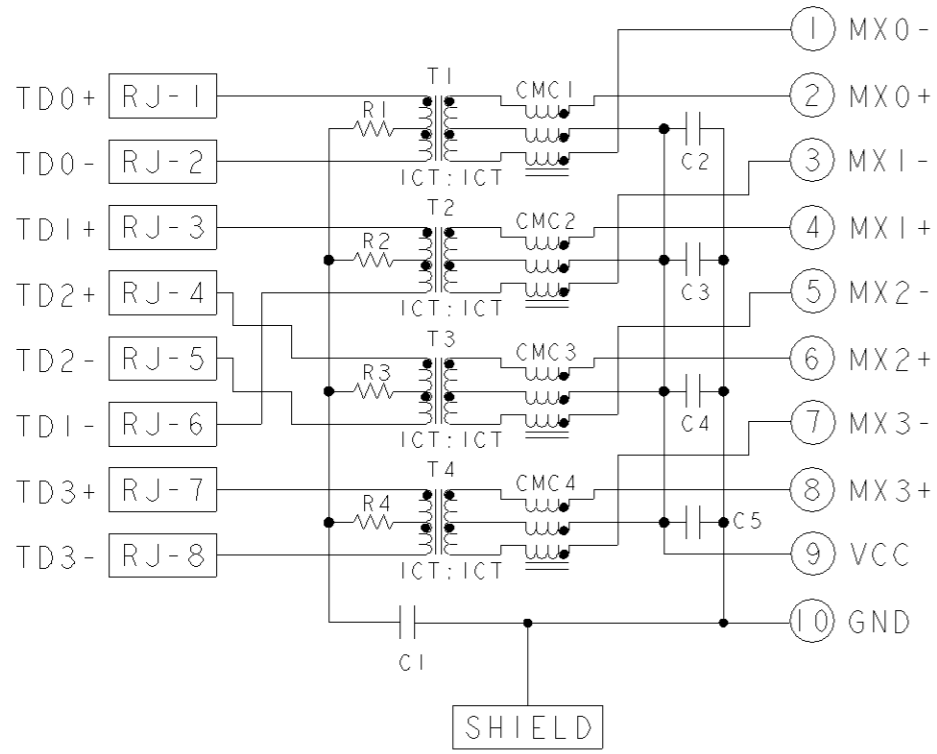


1. MATERIALS:
 PLASTIC HOUSING: BLACK, THERMOPLASTIC
 FLAMMABILITY RATING UL 94V-0
 SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,
 CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE WITH SELECT 1.27um MIN GOLD AT MATING 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

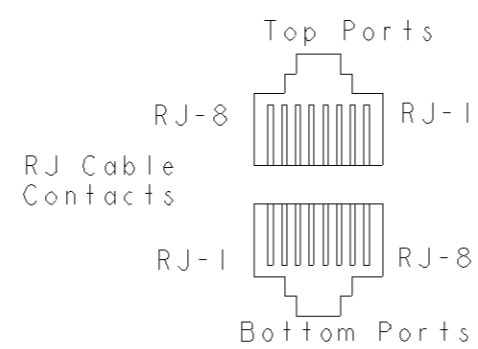
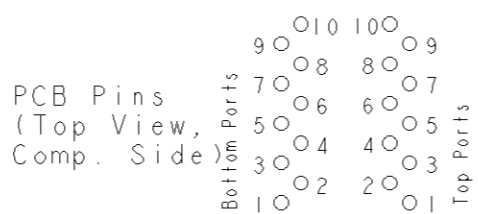
2. MAGNETICS
 APPLICATION: 10/100/1000 BASE-T
 IMPEDANCE: 100 OHMS
 TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 ALL FOUR PAIRS BI-DIRECTIONAL PERFORMANCE @ 25°C:
 INSERTION LOSS (IL): 1.1dB MAX FROM 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: COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b.
3. TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AGENCY APPROVAL MARKING LOGO LOCATED IN THE APPROXIMATE AREA SHOWN. DATE CODE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1
4. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK WAVE SOLDERING TEMPERATURE IS 265°C MAX, 10 SECONDS MAX.

S8G16 GIGABIT CIRCUIT ⚠ ⚠
 TOP AND BOTTOM PORTS

Pin Designations



(Repeat for each vertical pair of ports.)



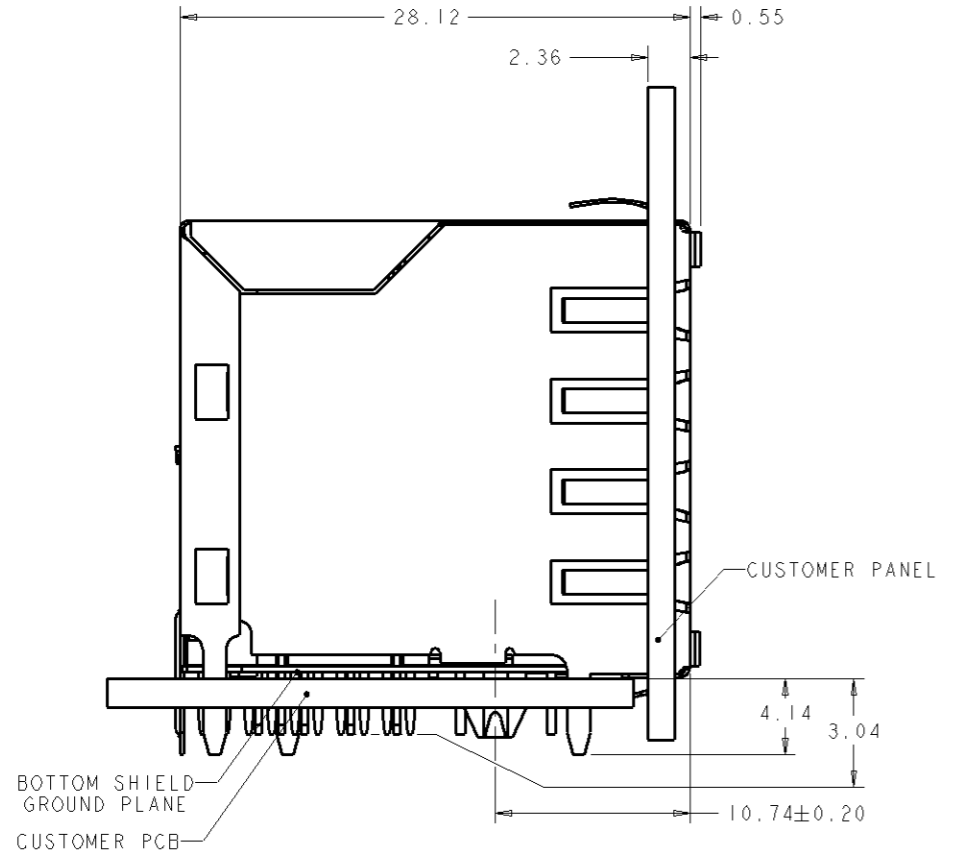
5. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRIC AND SUPPORT AUTO-MDIX.
6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F
7. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
8. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
9. BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT NOT TO BE GREATER THAN 5.08.
10. OPERATING TEMPERATURE: 0°C TO +70°C.

C1 = 1000 pF, 2kV X7R DECOUPLING CAPACITOR
 C2 - C3 = 50V, 470pF ±10%, X7R CAPACITORS
 R1 - R4 = 75 Ohms, 1/16 W, ±5% Resistors

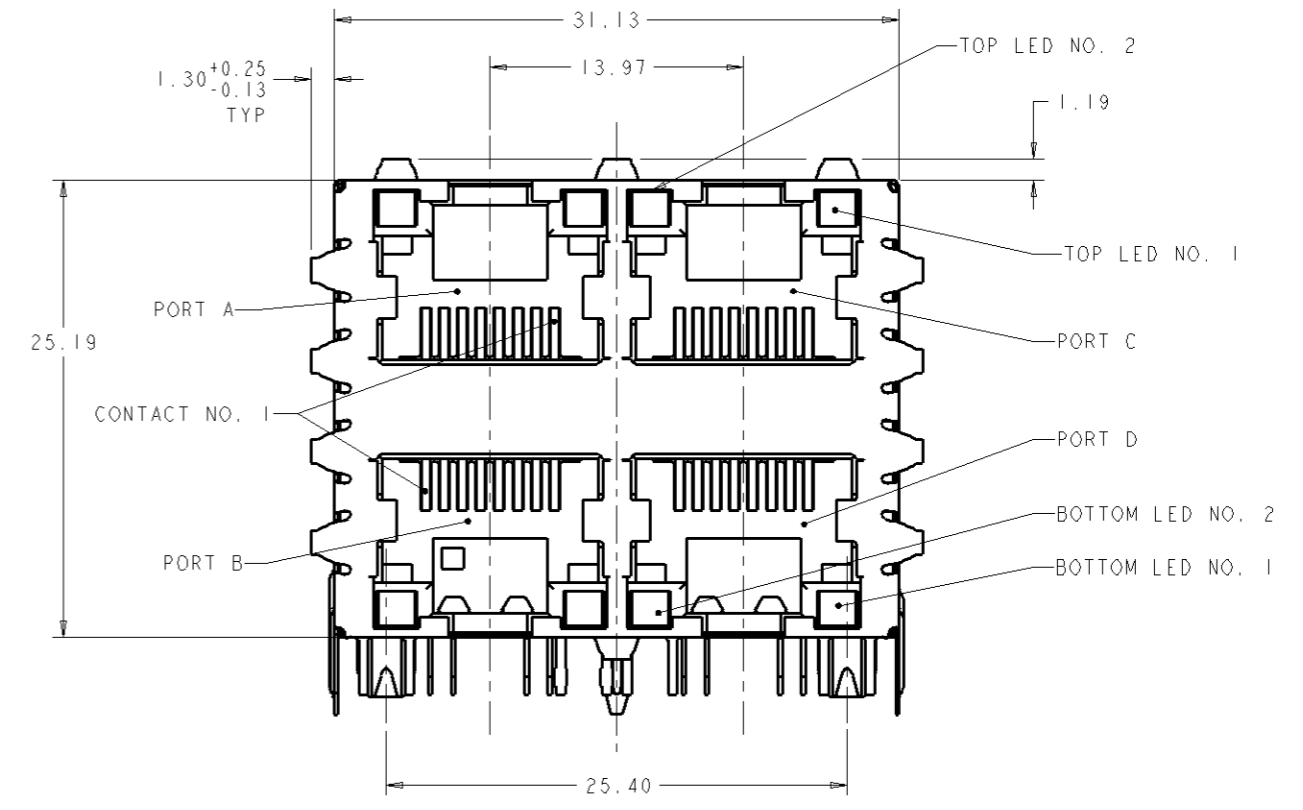
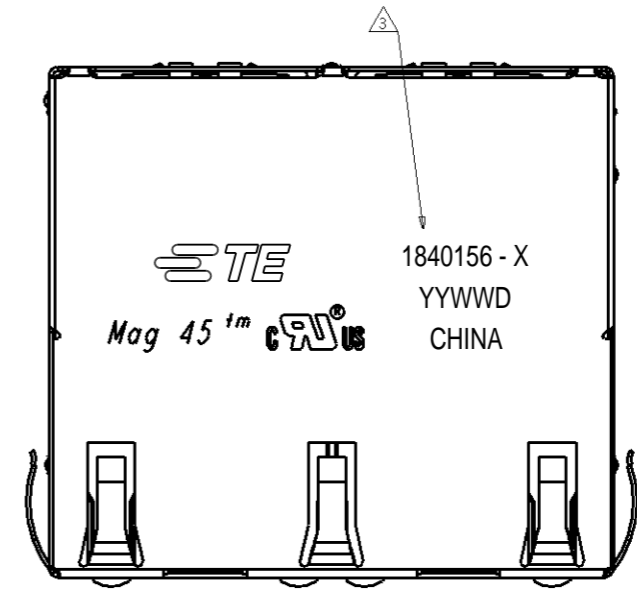
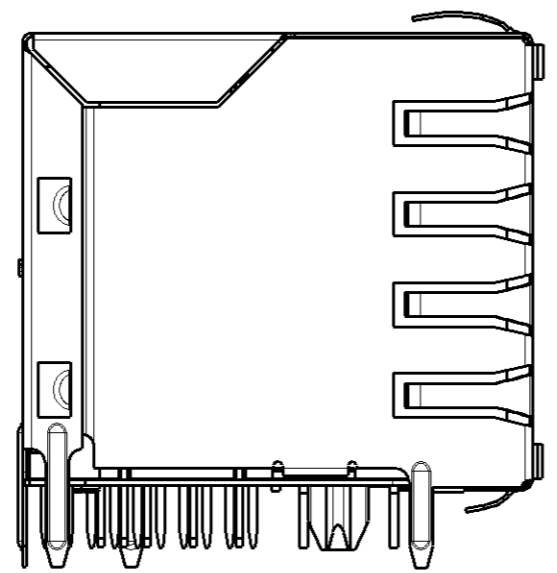
GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	1840156-4
GREEN	YELLOW	GREEN	YELLOW	1840156-3
YELLOW	GREEN	GREEN	YELLOW	1840156-2
GREEN	GREEN	GREEN	GREEN	1840156-1
BOTTOM LED NO. 2	BOTTOM LED NO. 1	TOP LED NO. 2	TOP LED NO. 1	PART NUMBER

DIMENSIONS		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MATERIAL		FINISH		WEIGHT		SCALE		SHEET		REV	
mm		0 PLC	±0.25	SEE NOTES						4:1	1	4			

REVISITONS		DATE	BY	APP'D
1	SEE SHEET 1			

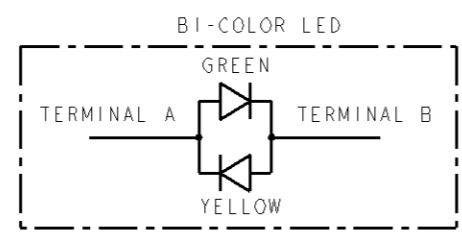
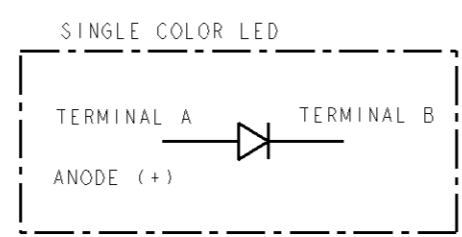
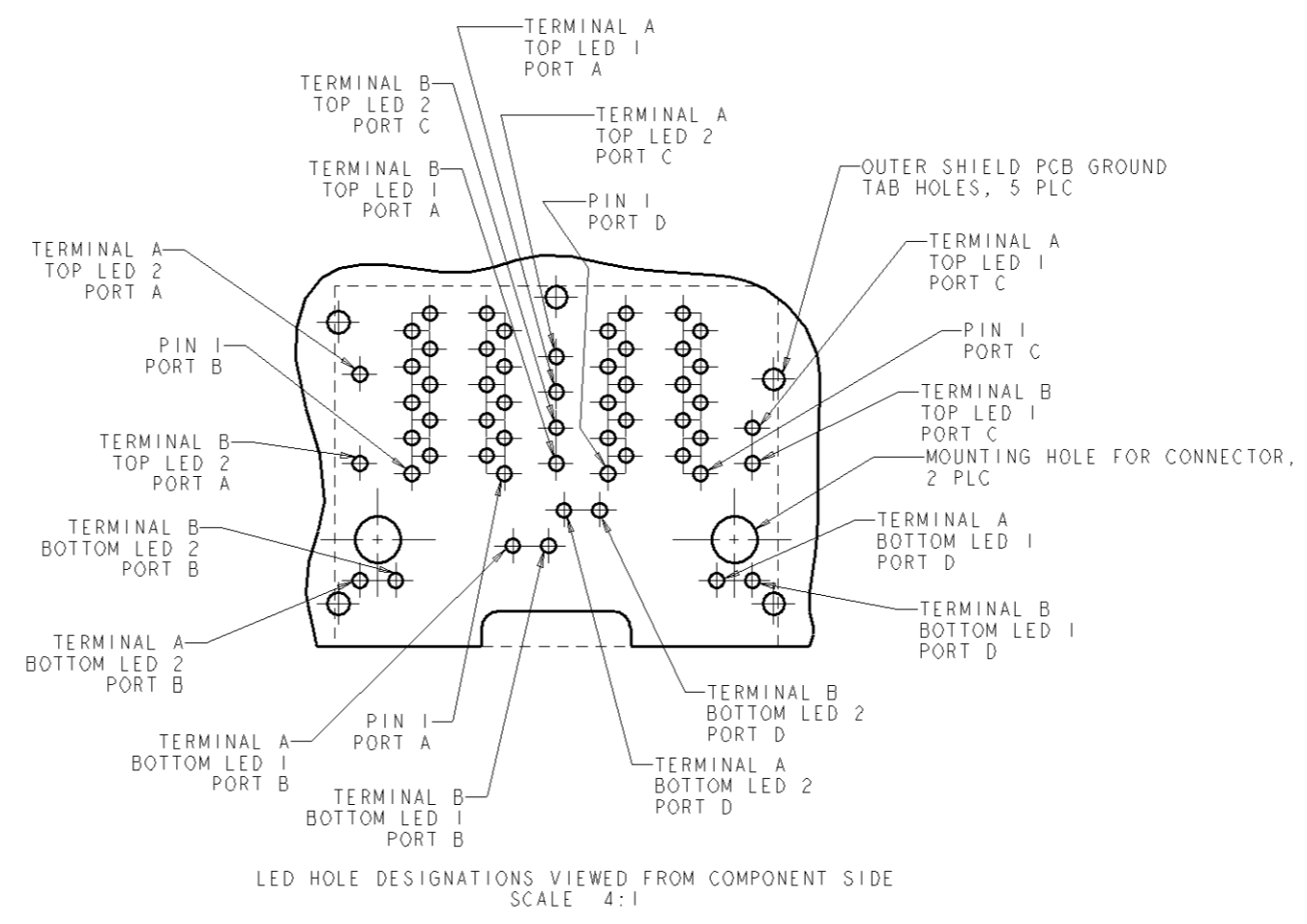


SIDE VIEW SHOWN WITH CUSTOMER PANEL AND PCB FOR LOCATION



DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DWG: KEKE YOU 12JUL2006		CHK: ERIC GE 12JUL2006		APP'D: TEDDY XIONG 12JUL2006		NAME: 2X2 MAG45(TM), GIGABIT S8G16 CIRCUIT W/ LEDS, WAVE PANEL, GROUND SHIELD CONTACT PIN 2	
0 PLC	±0.25	1 PLC	±0.25	MATERIAL: SEE NOTES	FINISH: SEE NOTES	WEIGHT: -	SCALE: 5:1	SHEET: 2	OF: 4	REV: D	RESTRICTED TO: -
2 PLC	±0.25	3 PLC	±0.25	CUSTOMER DRAWING		SIZE: A		CAGE CODE: 100779		DRAWING NO: 1840156	

REV. NO.		REVISIONS			
NO.	DATE	DESCRIPTION	DATE	BY	APP'D
AA	00	SEE SHEET 1			



DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DWG. CHECKED: KEKE YOU 12JUL2006		DATE: 12JUL2006	
mm		0 PLC ±0.25		CHK: ERIC GE 12JUL2006		NAME: TEDDY XIONG	
Ø		1 PLC ±0.25		APP'D: 12JUL2006		PRODUCT SPEC: 2X2 MAG45(TM), GIGABIT S8G16 CIRCUIT W/ LEDS, WAVE PANEL, GROUND SHIELD CONTACT PIN 2	
H		2 PLC ±0.25		MATERIAL: SEE NOTES		APPLICATION SPEC: 108-2100	
R		3 PLC ±0.25		FINISH: SEE NOTES		SIZE: A 00779 C=1840156	
ANGLE		A°		WEIGHT: -		RESTRICTED TO: -	
CUSTOMER DRAWING		SCALE: 4:1		SHEET: 4 OF 4		REV: D	