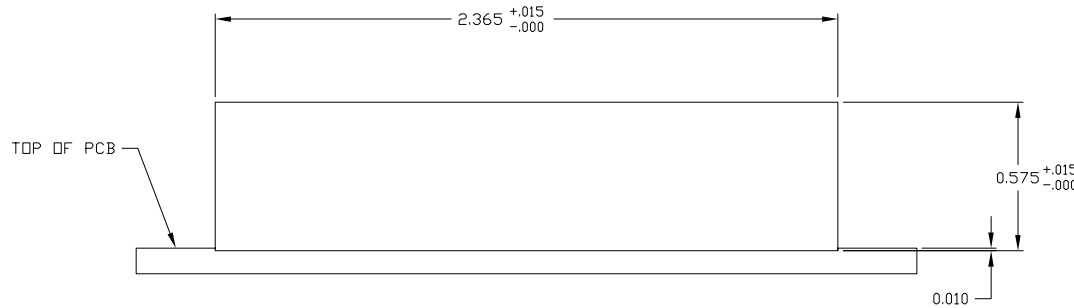
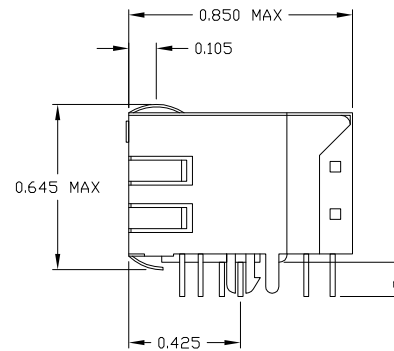
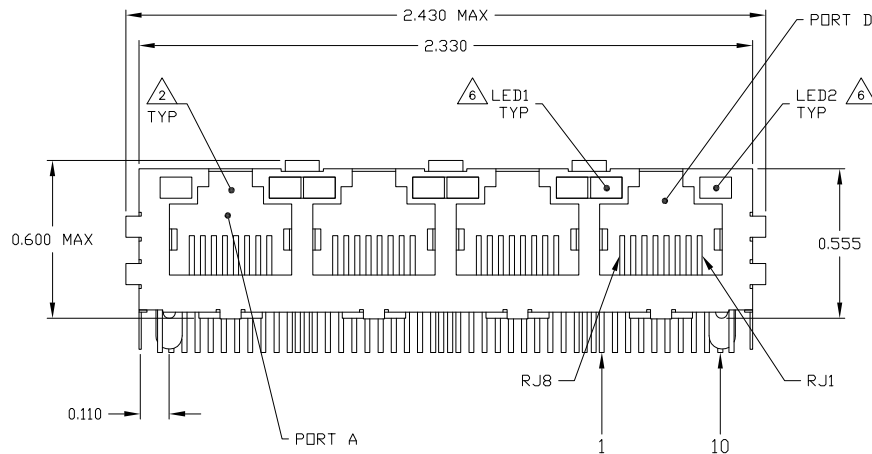
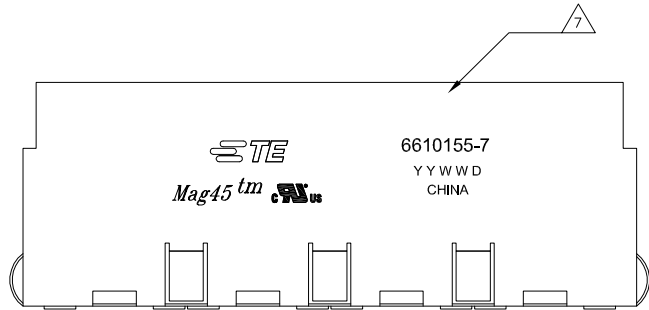


LOC		REV		DESCRIPTION		DATE	BY	APP
AA	22	D	ECO-08-030703			21NOV2008	VL	LR
		E	ECO-11-013427			20MAY2011	EL	LR

MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

- 1 MATERIALS:
  - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
  - SHIELD - 0.010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
  - MOD JACK CONTACTS - 0.0157" X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE.
  - SOLDER TAILS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
  - LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, 0.020" X 0.020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μIN 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
  - IMPEDANCE: 100 OHMS
  - TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
  - OPEN CIRCUIT INDUCTANCE (OCL): 350μH 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 4.0MHZ
    - 33-20\*LOG(f/50)dB MIN FROM 4.0.1MHZ TO 100MHZ
    - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHZ TO 100MHZ
    - ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

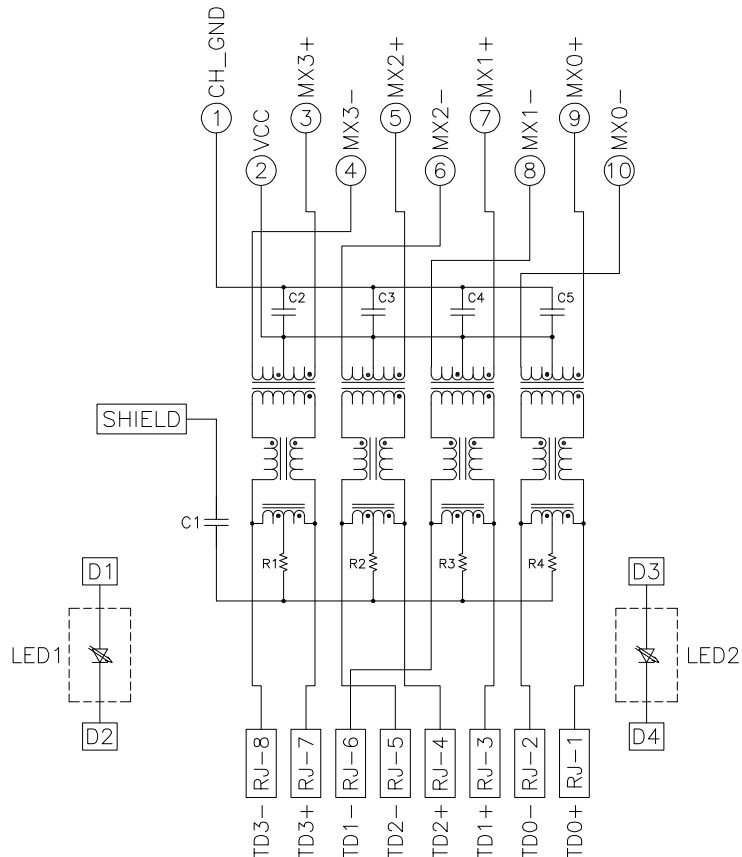
- 4 OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- 5 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.
- 6 LEADS WITHOUT BUILT-IN RESISTOR
  - LEADS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
  - LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
  - FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
  - DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP @ IF=20 mA
  - FORWARD VOLTAGE (VF): ORANGE 2.1V TYP @ IF=20 mA
- 7 TE CONNECTIVITY 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.

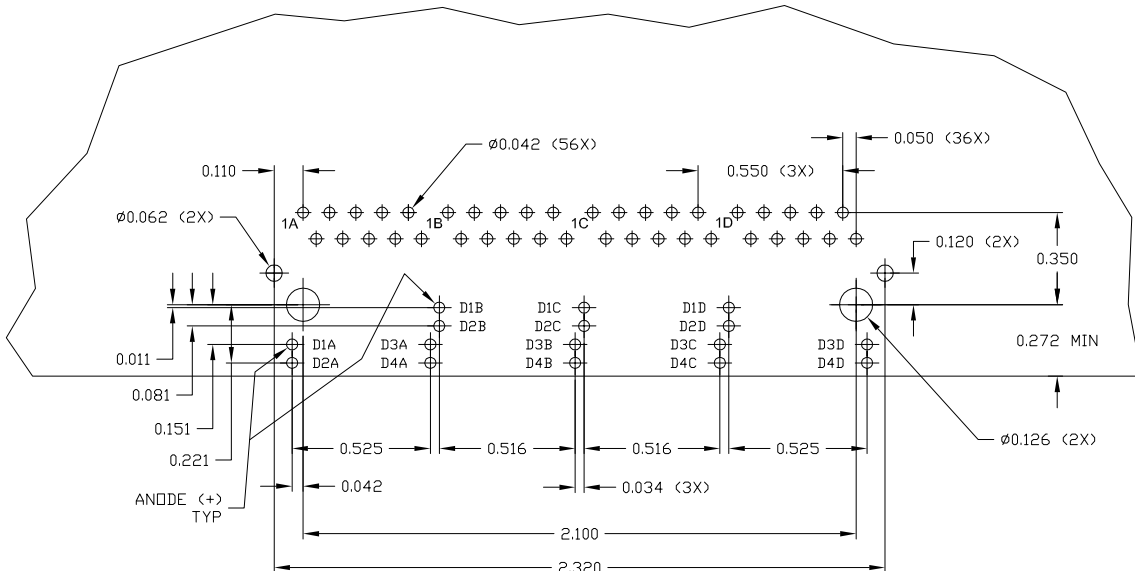
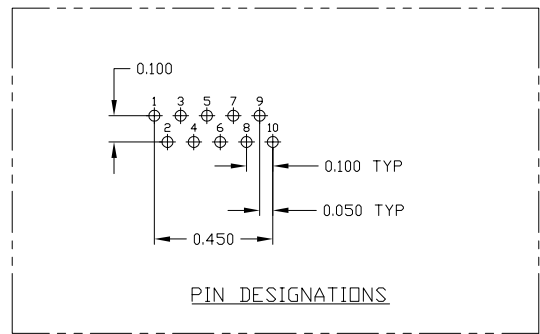
0.160±0.010	GREEN	GREEN	1-6610155-5
0.145±0.010	GREEN	ORANGE	1-6610155-2
0.145±0.010	GREEN	GREEN	6610155-7
DIM "A"	LED1	LED2	PART NUMBER

DIMENSIONS:		REV		DATE		DESCRIPTION	
INCHES	10 NUMBER OF PARTS ORDERED SPECIFIED:	1	ATTADIA	10/20/2008	1	1X4 MAG45(TW) MODULAR JACK, 704 SCHEMATIC, (10 PIN HORIZ), 7005 GIGABIT MAGNETIC CIRCUIT, SHIELDED, S2 PCB GROUND TABS, WITH LEADS	
0.160 ± 0.010	1.0	1	FAROLE	10/20/2008	1	108-2100	
0.145 ± 0.010	2	1	FAROLE	10/20/2008	1	108-2100	
0.145 ± 0.010	3	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	4	1	FAROLE	10/20/2008	1	108-2100	
0.010 ± 0.000	5	1	FAROLE	10/20/2008	1	108-2100	
0.575 ± 0.015	6	1	FAROLE	10/20/2008	1	108-2100	
0.600 ± 0.010	7	1	FAROLE	10/20/2008	1	108-2100	
2.330 ± 0.010	8	1	FAROLE	10/20/2008	1	108-2100	
2.430 ± 0.010	9	1	FAROLE	10/20/2008	1	108-2100	
2.365 ± 0.015	10	1	FAROLE	10/20/2008	1	108-2100	
0.010 ± 0.000	11	1	FAROLE	10/20/2008	1	108-2100	
0.555 ± 0.010	12	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	13	1	FAROLE	10/20/2008	1	108-2100	
0.105 ± 0.010	14	1	FAROLE	10/20/2008	1	108-2100	
0.850 ± 0.010	15	1	FAROLE	10/20/2008	1	108-2100	
0.425 ± 0.010	16	1	FAROLE	10/20/2008	1	108-2100	
0.645 ± 0.010	17	1	FAROLE	10/20/2008	1	108-2100	
0.105 ± 0.010	18	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	19	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	20	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	21	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	22	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	23	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	24	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	25	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	26	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	27	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	28	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	29	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	30	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	32	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	33	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	45	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	46	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	47	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	61	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	62	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	63	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	73	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	75	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	76	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	78	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	79	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	80	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	81	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	82	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	83	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	85	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	87	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	88	1	FAROLE	10/20/2008	1	108-2100	
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0.110 ± 0.010	90	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	91	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	92	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	93	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	94	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	95	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	96	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	97	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	98	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	99	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	100	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	101	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	102	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	103	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	104	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	105	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	106	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	107	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	108	1	FAROLE	10/20/2008	1	108-2100	
0.110 ± 0.010	109	1	FAROLE				

7G05 SERIES GIGABIT CIRCUIT



C1 = 1000pF, 2kV DECOUPLING CAPACITOR  
 R1-R4 = 75 OHMS, 1/16W RESISTORS  
 C2-C5 = 0.1µF, 10%, 50V, X7R CAPACITORS



SUGGESTED PCB LAYOUT  
 (Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		REV. 05 ATTADIA - 10MAR2005	DATE	10MAR2005
DRAWN BY: CH. FAROLE		CHK. FAROLE	DATE	10MAR2005
DIMENSIONS: INCHES		APD CH. FAROLE	DATE	10MAR2005
0 P.L.C. ± -		NAME: 1X4 MAG45(TM) MODULAR JACK, 704 SCHEMATIC		
1 P.L.C. ± .010		(10 PIN HORIZ), 7G05 GIGABIT MAGNETIC CIRCUIT,		
2 P.L.C. ± .005		SHIELDED, S2 PCB GROUND TABS, WITH LEADS		
3 P.L.C. ± .005		APPLICATION SPEC: 108-2100		
4 P.L.C. ± .005		SIZE: 00779		
ANGLES: ± .5		DRAWING NO: C=6610155		
MATERIAL: -		WEIGHT: -		
FINISH: -		SCALE: 4:1		
CUSTOMER DRAWING		SHEET 2 OF 2		
		REV. F		