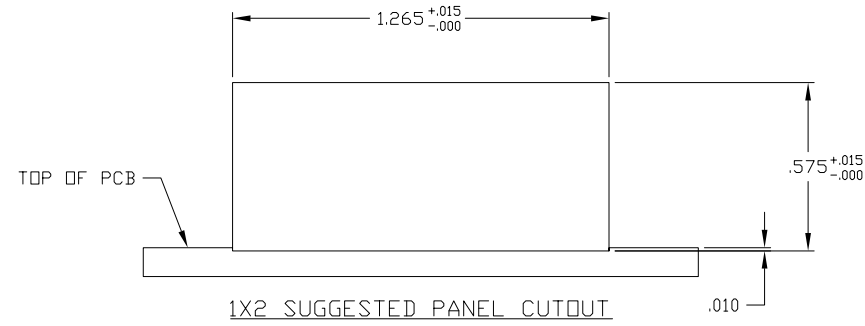
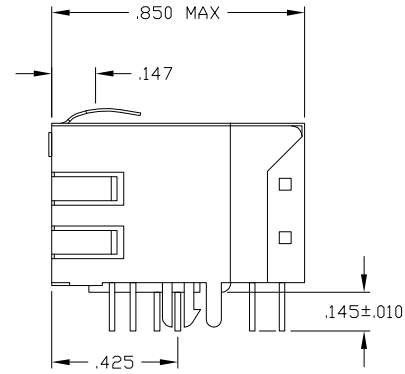
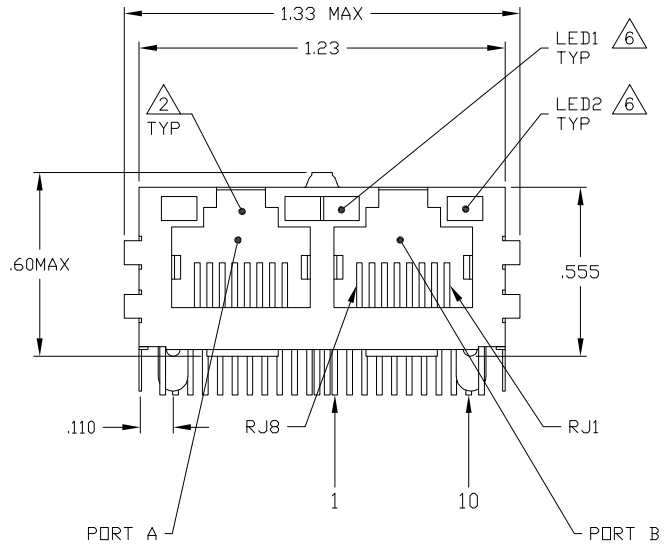
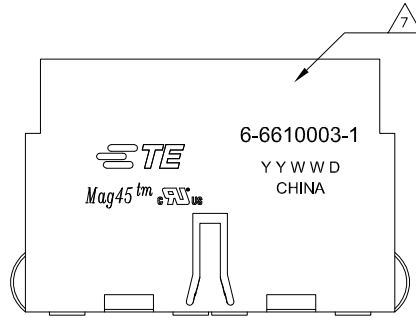


LOC	DATE	REVISIONS	DATE	BY	APP'D
AA	22				
C	REV PER ECO-08-021860		08APR2008	VL	TX
C1	REVISED PER ECO-09-024827		10NOV09	KK	AEG
D	ECO-11-013928		30MAY2011	EL	LR

MECHANICAL:



- 1. MATERIALS:
 - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 - SHIELD - .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, .020" X .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μINCH 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 4.0MHz
 - 12-20LOG(f/80)dB MIN FROM 4.0.1MHz TO 100MHz
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 - 33-20LOG(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° TO +70°C
- 5. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO ACCOMMODATE AUTO-MDI/MDIX.
- 6. THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 - LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
 - FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
 - DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at IF=20mA
 - FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA.
 - IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
 - LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. At VF=5V
 - FORWARD CURRENT (IF): GREEN 12 mA TYP. at VF=5V
 - DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. At VF=5V
 - FORWARD CURRENT (IF): YELLOW 13 mA TYP. at VF=5V
- 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.
- 9. OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

YES	GREEN	YES	GREEN	YES	6-6610003-1
YES	GREEN	NO	YELLOW	NO	5-6610003-8
YES	YELLOW	YES	GREEN	YES	5-6610003-2
YES	GREEN	YES	YELLOW	YES	5-6610003-4
DECOUPLING CAPACITOR	LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG. NO. VARELA - 03062008		DWG. NO. FAROLE - 10MAY2008	
DIMENSIONS:	INCHES	NO. PARTS SPECIFIED:	NO. PARTS SPECIFIED:	NO. PARTS SPECIFIED:	NO. PARTS SPECIFIED:
0 P.C.	± .010	1 P.C.	± .010	2 P.C.	± .010
3 P.C.	± .010	4 P.C.	± .010	5 P.C.	± .010
6 P.C.	± .010	7 P.C.	± .010	8 P.C.	± .010
9 P.C.	± .010	10 P.C.	± .010	11 P.C.	± .010
12 P.C.	± .010	13 P.C.	± .010	14 P.C.	± .010
15 P.C.	± .010	16 P.C.	± .010	17 P.C.	± .010
18 P.C.	± .010	19 P.C.	± .010	20 P.C.	± .010
21 P.C.	± .010	22 P.C.	± .010	23 P.C.	± .010
24 P.C.	± .010	25 P.C.	± .010	26 P.C.	± .010
27 P.C.	± .010	28 P.C.	± .010	29 P.C.	± .010
30 P.C.	± .010	31 P.C.	± .010	32 P.C.	± .010
33 P.C.	± .010	34 P.C.	± .010	35 P.C.	± .010
36 P.C.	± .010	37 P.C.	± .010	38 P.C.	± .010
39 P.C.	± .010	40 P.C.	± .010	41 P.C.	± .010
42 P.C.	± .010	43 P.C.	± .010	44 P.C.	± .010
45 P.C.	± .010	46 P.C.	± .010	47 P.C.	± .010
48 P.C.	± .010	49 P.C.	± .010	50 P.C.	± .010
51 P.C.	± .010	52 P.C.	± .010	53 P.C.	± .010
54 P.C.	± .010	55 P.C.	± .010	56 P.C.	± .010
57 P.C.	± .010	58 P.C.	± .010	59 P.C.	± .010
60 P.C.	± .010	61 P.C.	± .010	62 P.C.	± .010
63 P.C.	± .010	64 P.C.	± .010	65 P.C.	± .010
66 P.C.	± .010	67 P.C.	± .010	68 P.C.	± .010
69 P.C.	± .010	70 P.C.	± .010	71 P.C.	± .010
72 P.C.	± .010	73 P.C.	± .010	74 P.C.	± .010
75 P.C.	± .010	76 P.C.	± .010	77 P.C.	± .010
78 P.C.	± .010	79 P.C.	± .010	80 P.C.	± .010
81 P.C.	± .010	82 P.C.	± .010	83 P.C.	± .010
84 P.C.	± .010	85 P.C.	± .010	86 P.C.	± .010
87 P.C.	± .010	88 P.C.	± .010	89 P.C.	± .010
90 P.C.	± .010	91 P.C.	± .010	92 P.C.	± .010
93 P.C.	± .010	94 P.C.	± .010	95 P.C.	± .010
96 P.C.	± .010	97 P.C.	± .010	98 P.C.	± .010
99 P.C.	± .010	100 P.C.	± .010		

DATE	DESCRIPTION	DATE	BY	APP'D
10/27/08	REVISED PER ECO-09-024827	10/27/08	KK	AEG
08/04/08	REVISED PER ECO-08-021860	08/04/08	VL	TX

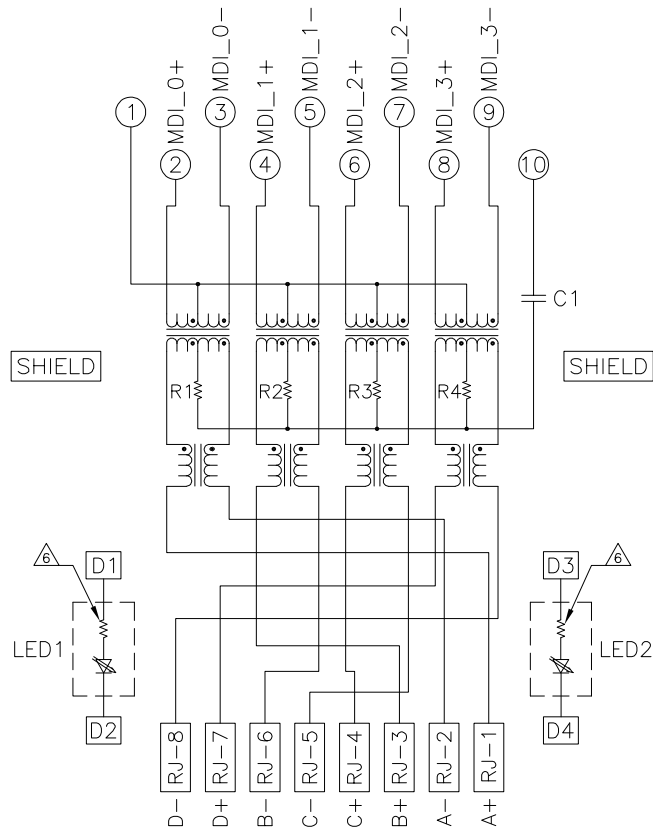
REV	DATE	DESCRIPTION	BY	APP'D
1	10/27/08	REVISED PER ECO-09-024827	KK	AEG
2	08/04/08	REVISED PER ECO-08-021860	VL	TX

REV	DATE	DESCRIPTION	BY	APP'D
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2	08/04/08	REVISED PER ECO-08-021860	VL	TX

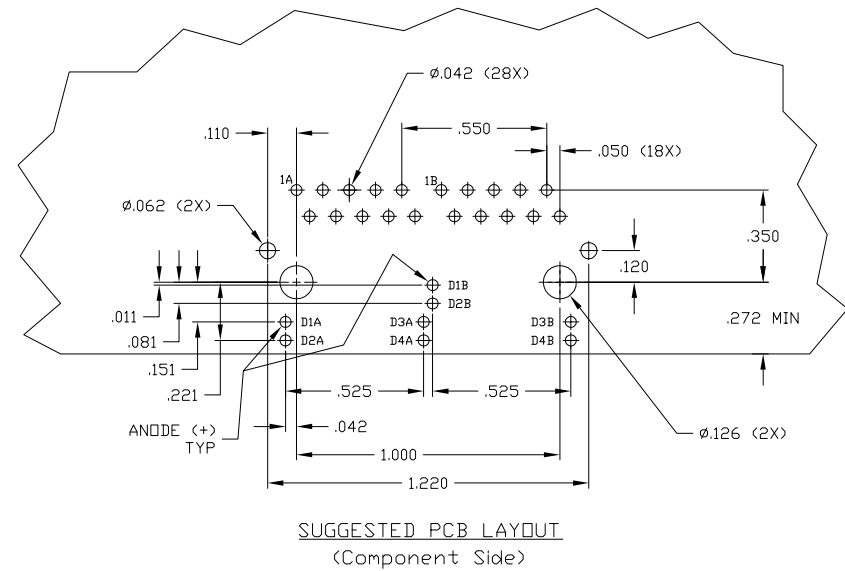
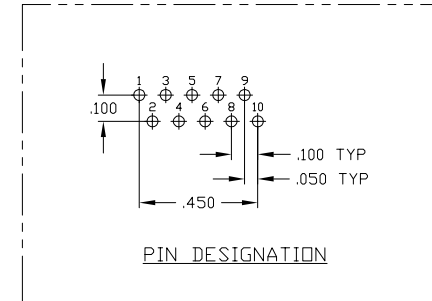
REV	DATE	DESCRIPTION	BY	APP'D
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2	08/04/08	REVISED PER ECO-08-021860	VL	TX

REV	DATE	DESCRIPTION	BY	APP'D
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2	08/04/08	REVISED PER ECO-08-021860	VL	TX

7G01P1 GIGABIT MAGNETIC CIRCUIT

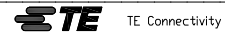


C1 = 1000pF, 2kV CAPACITOR
 R1-R4 = 75 OHMS, 1/16 W RESISTORS



SUGGESTED PCB LAYOUT
 (Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		REV	1	VARELA	15MAR2008
DIMENSIONS:		CHK	3	FAROLE	15MAR2008
INCHES	TO MANUFACTURE, UNLESS OTHERWISE SPECIFIED:	APP'D	3	FAROLE	15MAR2008
0 P.C.	± .010	NAME			
1 P.C.	± .010	PRODUCT SPEC			
2 P.C.	± .010	APPLICATION SPEC			
3 P.C.	± .008	SIZE	A1	00779	C=6610003
4 P.C.	± .008	SCALE			
ANGLES	± .008	WEIGHT			
MATERIAL		FINISH			
CUSTOMER DRAWING		SCALE	4:1	SHEET	2 of 2



1X2 MAG45(TM) MODULAR JACK,
 7G1P1 SCHEMATIC, 7G01P1 GIGABIT CIRCUIT
 (10 PIN HORIZONTAL), SHIELDED, WITH LEADS