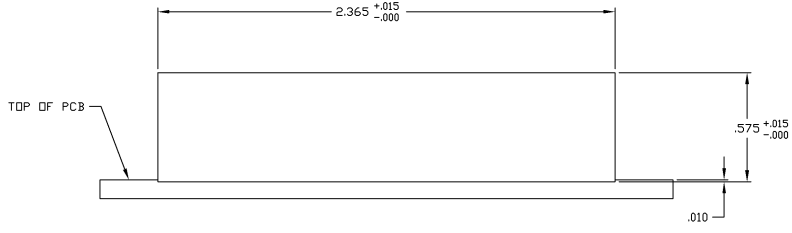
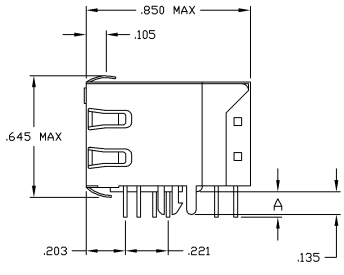
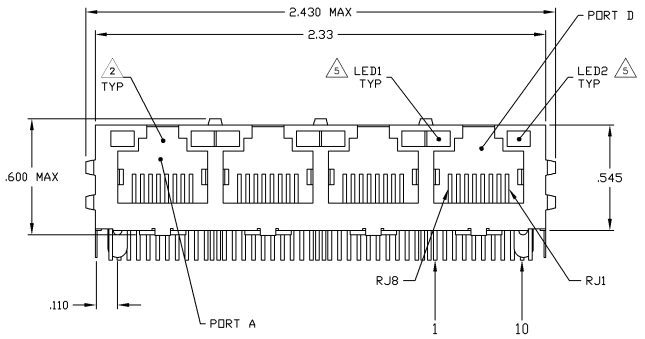
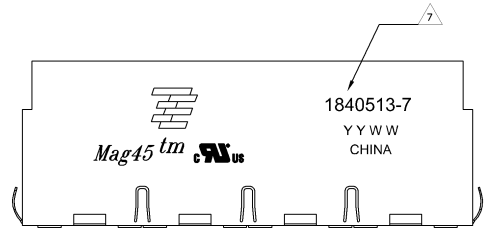


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REV	DATE	DESCRIPTION	BY	CHK	APP
AA	00				
D		REV PER ECO-08-016992			21/06/2008 GL TX

MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

- MATERIALS:**
- HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
 - SHIELD - .010" THICK COPPER BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
 - MOD JACK CONTACTS - 0.0957 X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 5μINCH MIN HARD GOLD FINISH PLATE. SOLDER TABS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
 - LIGHT EMITTING DIODE (LED) - DIFFUSED EPOXY LENS, 1020° X 1020° CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 10μINCH SILVER OVER 45μINCH NICKEL UNDERPLATE OVER 45μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.
- RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 48, SUB PART F.**
- MAGNETICS**
- IMPEDANCE: 100 OHMS
 - TURNS RATIO (NHP CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT IMPEDANCE (DC): 50Ω MIN @ 100MHz, 0.5V RMS, 8mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25°C
 - INSERTION LOSS (IL): 1.0dB MAX FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 14dB MIN FROM 0.5MHz TO 4.0MHz
 - 12-20LOG10/80dB MIN FROM 4.0MHz TO 100MHz
 - CROSS TALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 4.0MHz
 - 35-20MCG/35dB MIN FROM 4.0MHz TO 100MHz
 - COMMON MODE REJECTION RATIO (CMRR): 36dB MIN FROM 0.5MHz TO 100MHz
 - ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 1002, PARA 4.6.11, ITEM b.
- 4. OPERATING TEMPERATURE: FROM 0°C TO +70°C**
- 5. 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 (D): GREEN 568 nm TYP @ IF=20mA**
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20mA
DOMINANT WAVELENGTH (D): YELLOW 588 nm TYP @ IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20mA
DOMINANT WAVELENGTH (D): ORANGE 605 nm TYP @ IF=20mA
FORWARD VOLTAGE (VF): ORANGE 2.0V TYP @ IF=20mA
- IF THE LED WITH 250 OHM RESISTORS IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA**
- LED COLOR: DOMINANT WAVELENGTH (D): GREEN 568 nm TYP @ VF=5V**
FORWARD CURRENT (IF): GREEN 13 mA TYP @ VF=5V
DOMINANT WAVELENGTH (D): YELLOW 588 nm TYP @ VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP @ VF=5V
- INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-INDUXX.**
- TYCO ELECTRONICS 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 MAX. 10 SECONDS MAX.**

.160±.010	GREEN	NO	YELLOW	NO	1840513-8
.160±.010	GREEN	NO	GREEN	NO	1840513-7
.160±.010	YELLOW	YES	GREEN	YES	1840513-2

DIM "A"	LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER
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DATE	REV	BY	CHK	APP

1X4 MAG45(TW) MODULAR JACK 70DS GIGABIT MAGNETIC CIRCUIT, SHIELDED, SZ PCB GROUND TABS, WITH LEDs

SCALE: 4:1 SHEET 1 OF 2

CUSTOMER DRAWING: 1840513

