



MATERIALS:
 HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
 SHIELD - .015" THICK, C26800 BRASS PREPLATED WITH 30µm SEMI-BRIGHT NICKEL; SOLDER TABS
 POST-DIPPED WITH 100µm MIN SAC SOLDER
 MOD JACK CONTACTS - .0157" x .018" THICK, PHOSPHOR BRONZE, 50µm MIN OVERALL NICKEL
 UNDERPLATE, WITH SELECT 50µm MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100µm MIN
 MATTE TIN AND/OR SAC SOLDER DIP
 LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .023" x .020" CARBON STEEL WIREFRAME LEADS
 PREPLATED WITH 80µm SILVER OVER 4µm NICKEL UNDERPLATE OVER 4µm COPPER
 UNDERPLATE, POST-PLATED WITH 100µm MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN
 SOLDER DIP

**RIS JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68,
 SUB PART F.**

MAGNETICS
 APPLICATION: 10/100/1000 BASE-T, EXTENDED TEMPERATURE
 IMPEDANCE: 100 OHMS
 TURNS RATIO (CHP CABLE) 1:1 ALL FOUR PAIRS
 OPEN CIRCUIT INDUCTANCE (OCL) 35µH MIN @100MHz, 0.1VRMS
 BRIDGE 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
 12-20dBG/80dB MIN FROM 4.0MHz TO 100MHz
 CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 100MHz
 33-20dBG/50dB MIN FROM 4.0MHz TO 100MHz
 COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
 ISOLATION VOLTAGE: COMPLEX WITH IEEE802.3 2000, PARA 40.6.1.1, ITEM b

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

LEDs ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
 LED COLOR: DOMINANT WAVELENGTH (AD) GREEN 568 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF) GREEN 2.2V TYP @ IF=20 mA
 DOMINANT WAVELENGTH (AD) YELLOW 588 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF) YELLOW 2.1V TYP @ IF=20 mA
 DOMINANT WAVELENGTH (AD) ORANGE 605 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF) ORANGE 2.1V TYP @ IF=20 mA

THE MAGNETICS ARE SYMMETRICAL TO SUPPORT AUTO-IND/MDX.

**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. PREHEAT TEMPERATURE IS 120°C
 TO 180°C, 120 SECONDS TO 180 SECONDS. PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10
 SECONDS MAX.

| THIS DRAWING IS A CONTROLLED DOCUMENT | | REV | DATE | BY | CHKD | APPD | DESCRIPTION |
|---------------------------------------|----|-----|------|----|------|------|-----------------------|
| AA | 00 | | | | | | REV PER ECO-09-001495 |

| REVISIONS | DATE | BY | CHKD | APPD |
|-----------|------|----|------|------|
| AA | 00 | | | |

| DESCRIPTION | REV | DATE | BY | CHKD | APPD |
|---|-----|-------|----|------|------|
| 7G05ET GIGABIT CIRCUIT, SHIELDED, WITH LEDS | 1 | 00779 | | | |

| LED1 | LED2 | PART NUMBER |
|--------------|--------|-------------|
| GREEN/ORANGE | YELLOW | 1-1840710-3 |
| GREEN/YELLOW | GREEN | 1840710-5 |
| GREEN | GREEN | 1840710-1 |