



**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 TABS 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 4μINCH 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 68, SUB PART F.**

**MAGNETICS**

- IMPEDANCE 100 OHMS
- TURN RATIO (CHP-CABLE) TX = 11, RX = 11
- OPEN CIRCUIT INDUCTANCE (OCL) 350μH MIN @ 100MHz, 0.1VRMS, 8mA BIAS FROM -40°C TO +85°C, TX AND RX
- PERFORMANCE @ 25°C
- INSERTION LOSS (ILI) 1.1dB MAX FROM 0.5MHz TO 100MHz
- RETURN LOSS (RL) 18dB MIN FROM 0.5MHz TO 30MHz
- 18-20LOG(F/30)dB MIN FROM 30 MHz TO 60MHz
- 12dB MIN FROM 60 MHz TO 80MHz
- CROSSTALK ATTENUATION 35dB MIN FROM 0.5MHz TO 40MHz
- 33-20-LOG(F/30)dB MIN FROM 40 MHz TO 100MHz
- COMMON MODE REJECTION RATIO (CMRR) 30dB MIN FROM 0.5MHz TO 100MHz
- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM D.

**OPERATING TEMPERATURE FROM -40°C TO +85°C INDUSTRIAL TEMPERATURE RATED.**

**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 (ADI) GREEN 568 nm TYP @ IF=20mA**

**FORWARD VOLTAGE (VF) GREEN 2.2V TYP @ IF=20mA**

**DOMINANT WAVELENGTH (ADI) YELLOW 588 nm TYP @ IF=20mA**

**FORWARD VOLTAGE (VF) YELLOW 2.1V TYP @ 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 (ADI) GREEN 568 nm TYP @ VF=5V**

**FORWARD CURRENT (IF) GREEN 12 mA TYP @ VF=5V**

**DOMINANT WAVELENGTH (ADI) YELLOW 588 nm TYP @ VF=5V**

**FORWARD CURRENT (IF) YELLOW 13 mA TYP @ VF=5V**

**INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION THE MAGNETICS ARE SYMMETRIC, AND SUPPORT AUTO-MDI/MDIX.**

**TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.**

**THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS.**

**PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.**

YES	YELLOW	NO	GREEN	NO	5-6605704-9
NO	GREEN	YES	YELLOW	YES	6-6605704-1
2KV DECOUPLING CAPACITOR	LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT

REV	DATE	BY	CHKD	REVISIONS	DATE	BY	CHKD
A1	00779						

CUSTOMER DRAWING