



REV	DATE	DESCRIPTION	BY	CHK	APP
D	REV PER ECO-09-012435				
D1	REVISED PER ECO-09-024927				
E	ECO-11-013349				

- MATERIALS:**
- HOLDING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
  - SHIELD - 0.03" THICK, C20400 BRASS PREPLATED WITH 30.0 INCH MIN SEMI-BRIGHT NICKEL SOLDER TABS POST DIPPED WITH 100.0 INCH MIN SAC SOLDER
  - MOD JACK CONTACTS - 0.057" X 0.038" PHOSPHOR BRONZE, 50.0 INCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50.0 INCH MIN HARD GOLD FINISH PLATE
  - SOLDER TABS WITH 100.0 INCH MIN MATTE TIN AND/OR SAC SOLDER DIP
  - LIGHT EMITTING DIODE(S) - DIFFUSED EPIXY LENS, 0.200" X 0.200" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80.0 INCH SILVER OVER 40.0 INCH NICKEL UNDERPLATE OVER 40.0 INCH COPPER UNDERPLATE, POST-PLATED WITH 100.0 INCH 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
  - TURNS RATIO (CHP. CABLE): TX = 11, RX = 11
  - OPEN CIRCUIT INDUCTANCE (OCLL) 350.0 pF MIN @ 100MHz, 0.1V RMS, BRACD BIAS FROM 0°C TO 70°C, TX AND RX
  - PERFORMANCE @ 25°C
  - INSERTION LOSS (IL): 1.5dB MAX FROM 0.5MHz TO 100MHz
  - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
  - 18-20.0GHz/30dB MIN FROM 30 MHz TO 60MHz
  - 30dB MIN FROM 60 MHz TO 80MHz
  - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
  - 33-20.0GHz/50dB MIN FROM 40 MHz 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.
- OPERATING TEMPERATURE: FROM 0°C TO +70°C.**
- 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 (LD) GREEN 568 nm TYP. AT IF=20mA
  - FORWARD VOLTAGE (VF) GREEN 2.2V TYP. AT IF=20mA
  - DOMINANT WAVELENGTH (LD) 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 (LD) GREEN 568 nm TYP. AT VF=5V
  - FORWARD CURRENT (IF) GREEN 12 mA TYP. AT VF=5V
  - DOMINANT WAVELENGTH (LD) YELLOW 588 nm TYP. AT VF=5V
  - FORWARD CURRENT (IF) YELLOW 13 mA TYP. AT VF=5V
- INDICATED CONNECTIONS ARE FOR A HUB CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL AND DO NOT SUPPORT AUTO-MUX.**
- TE CONNECTIVITY 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 140°C, 100 SECONDS TO 180 SECONDS; PEAK WAVE SOLDERING TEMPERATURE IS 240 C MAX, 10 SECONDS MAX.**
- OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI**

YES	GREEN	YELLOW	5-6610084-1
NO	GREEN	GREEN	<del>4-6610084-1</del>

2KV DECOUPLING CAPACITOR	LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. THE USER IS RESPONSIBLE FOR THE PROTECTION OF THIS DOCUMENT.

TE CONNECTIVITY

1X6 MAG45(TM) MODULAR JACK, THIS SCHEMATIC, 54 SERIES CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, SHIELDED, WITH RESISTOR LEADS

REV: 108-2100

DATE: 07/20/07

REVISED TO: 00779

CUSTOMER DRAWING

