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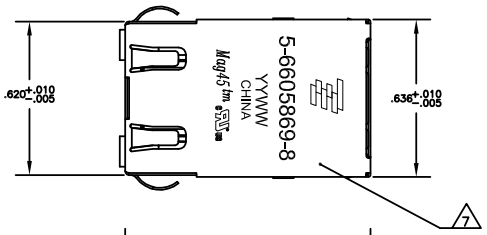
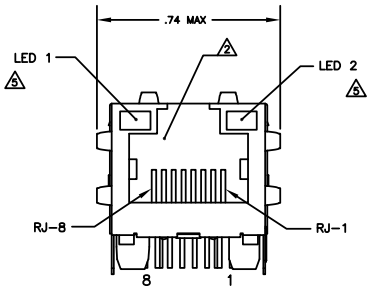
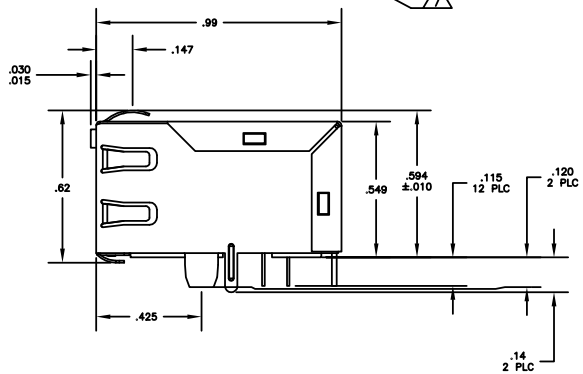
LOC	DIST
AA	00

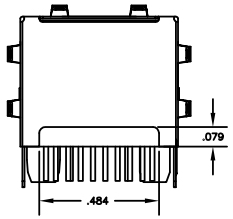
REVISIONS

P	LTR	DESCRIPTION	DATE	DRN	APVD
	D	REV PER ECO-09-014167	16JUN2009	VL	LR
	E	ECO-10-018297	26AUG2010	RL	KZ









1. MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .008" THICK, C26800 BRASS PREPLATED WITH 30µINCH MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST-DIPPED WITH SAC SOLDER.
MOD JACK CONTACTS - .0157" x .018" PHOSPHOR BRONZE, 50µINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50µINCH MIN HARD GOLD FINISH PLATE. SOLDERTAILS WITH 100µINCH MIN MATTE TIN AND/OR SAC SOLDER DIP
LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" x .020" CARBON STEEL WIREFRAME LEADS PREPLATED 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
-APPLICATION: 10/100 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP-CABLE): TX = 1:1, RX = 1:1
-OPEN CIRCUIT INDUCTANCE (OCL): 350µH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX
-PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 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 30.1MHz TO 60MHz
12dB MIN FROM 60.1MHz TO 80MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20LOG(f/50)dB MIN FROM 40.1MHz 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 b.

4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

5. LEDS WITHOUT BUILT-IN RESISTOR
LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA

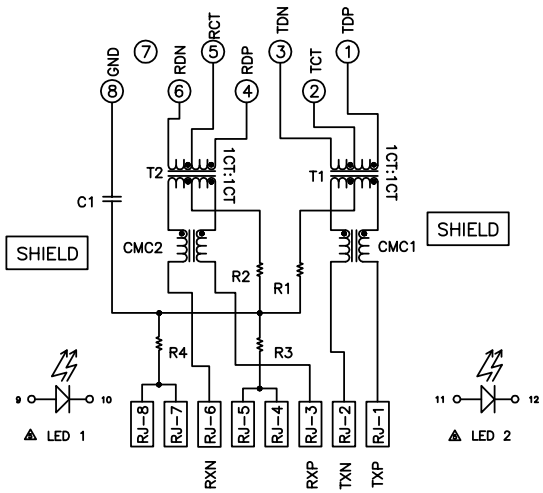
6. INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRIC, AND SUPPORT AUTO-MDI/MDIX.

7. 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 160°C, 120 SECONDS TO 180 SECONDS,PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.

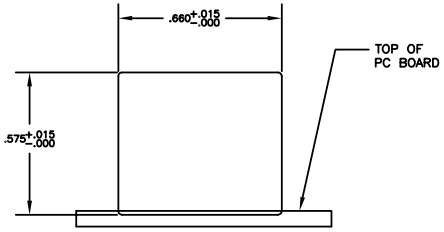
ELECTRICAL:

26P1 MAGNETIC SCHEMATIC: 3 6

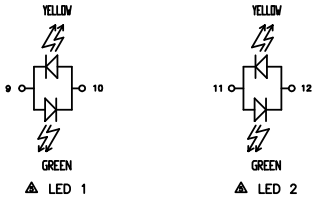


C1=1000 pF, 2kV CAPACITOR

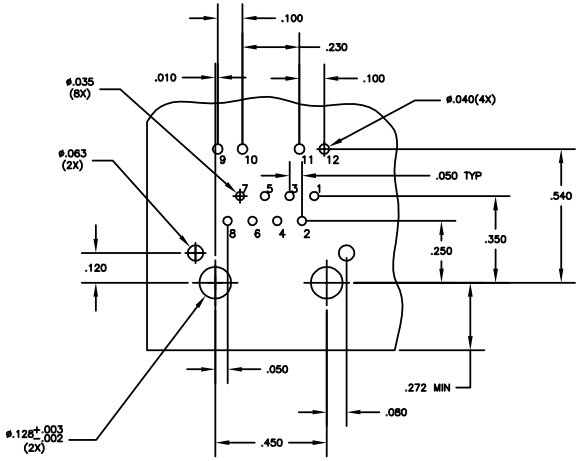
R1-R4 =75 Ohms, 1/16 W RESISTORS



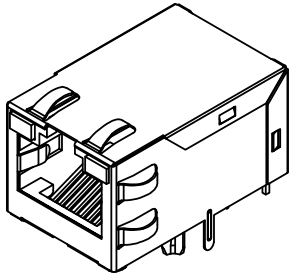
SUGGESTED PANEL CUTOUT



LED CONFIGURATION
FOR 6605869-6 ONLY



SUGGESTED PC BOARD LAYOUT
(Component Side)



GREEN	YELLOW	5-6605869-8
GREEN	GREEN	5-6605869-7
YELLOW	GREEN	6605869-9
GREEN/YELLOW	GREEN/YELLOW	6605869-6
LED 1 5	LED 2 5	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± .01
3 PLC ± .005
4 PLC ± -
ANGLES ± -
FINISH 1

MATERIAL 1

DRN C. GILLETTE 25AUG2009
CHK D. FAROLE 31AUG2009
APVD S. EICKINGER 31AUG2009
PRODUCT SPEC 108-2100
APPLICATION SPEC -
WEIGHT -

Tyco Electronics
Tyco Electronics Corporation
ChangPing, China

NAME INTEGRATED MAGNETIC MOD JACK ASSY, 1x1 MAG45(TM), SHLD, 6 WAVE PNL GNDS, W/REAR LED LEADS, 26P1 MAGNETIC CIRCUIT

SIZE A1 CAGE CODE 00779 DRAWING NO C-6605869 RESTRICTED TO -

CUSTOMER DRAWING SCALE NTS SHEET 1 OF 1 REV E

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