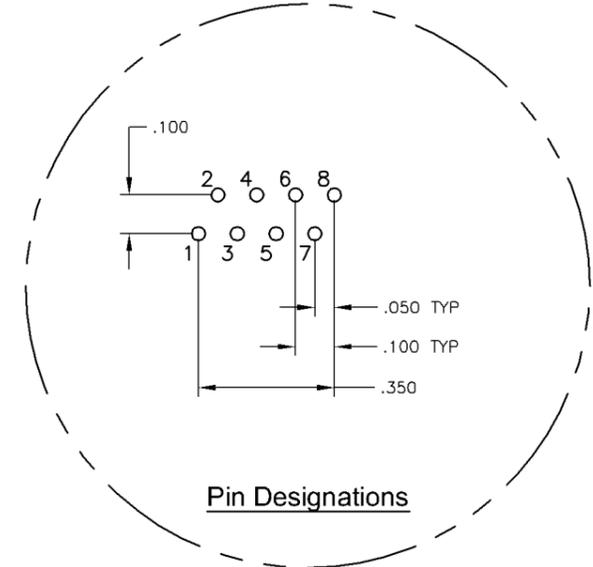
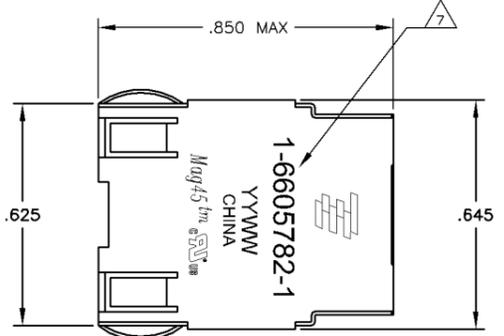


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LOC		DST		REVISIONS			
AA	22	REV	PER	ECO-06-031929	DATE	BY	APP'D
E					10MAR2008	VL	LR

MECHANICAL:



Pin Designations

- 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.
 - 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 PRE-PLATED 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.

RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

- MAGNETICS**
- 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
 - 33-20*LOG(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

INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND ARE NOT AUTO-MDI/MDIX CAPABLE.

THE 250 OHM RESISTOR IS OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS.

IF LEDS WITHOUT 250 OHM RESISTOR, LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA

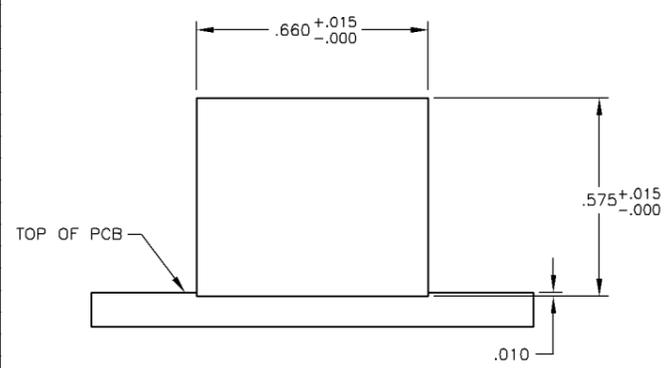
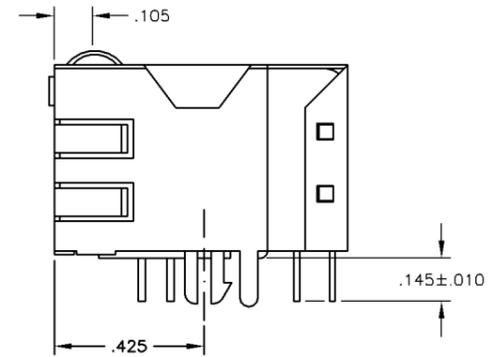
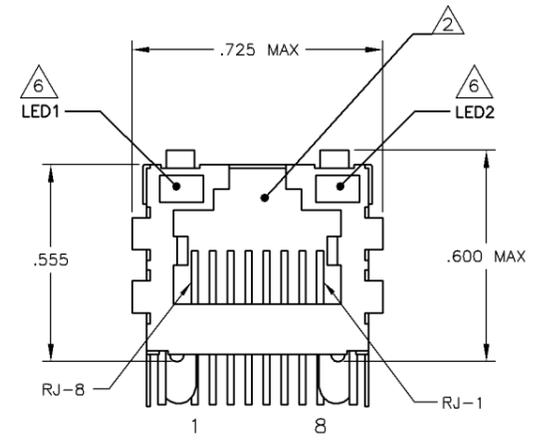
LED COLOR: DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
 DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA

IF LEDS WITH BUILT-IN RESISTOR, LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.

LED COLOR: DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP @ VF=5V
 FORWARD CURRENT (IF): GREEN 12mA TYP @ VF=5V
 DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ VF=5V
 FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF=5V

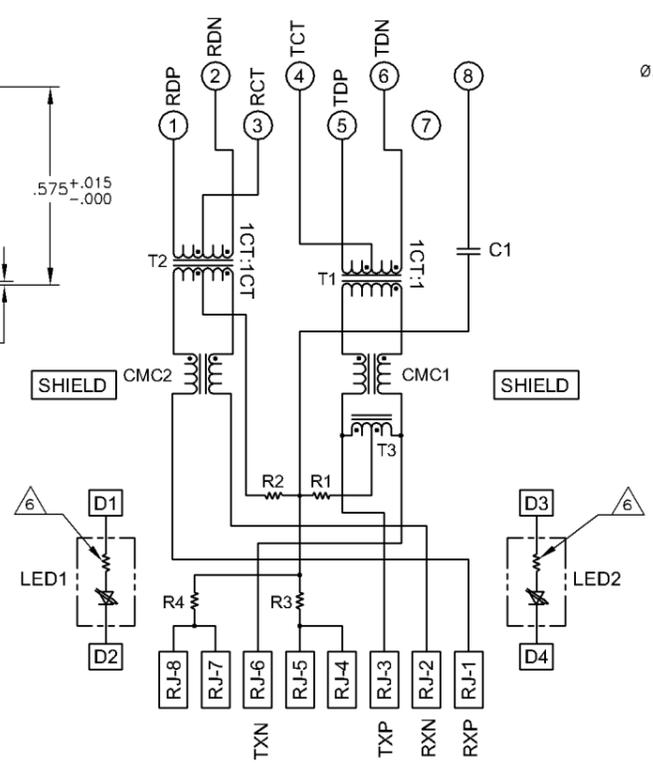
TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

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.

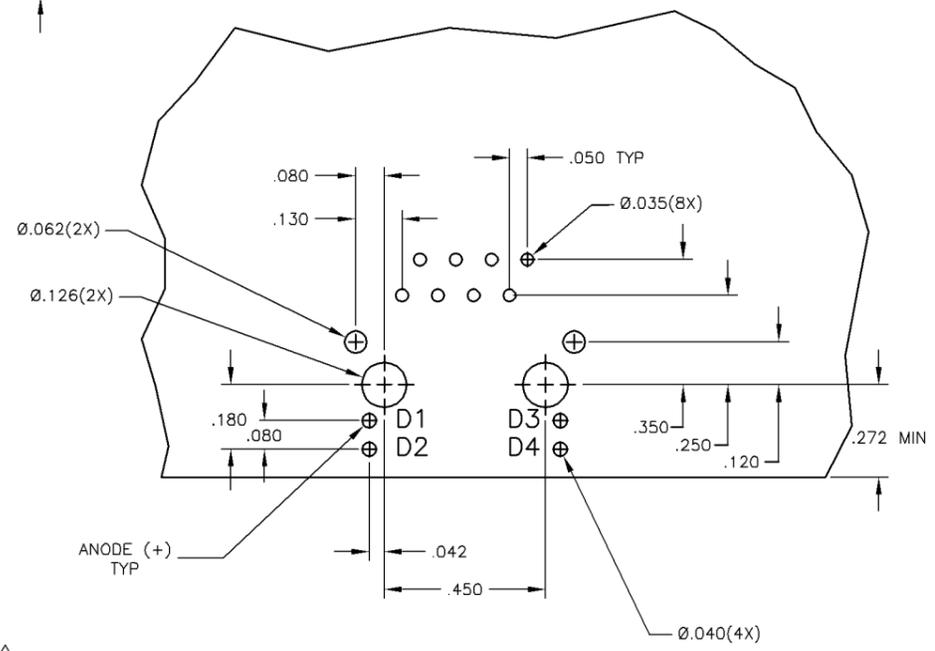


Suggested Panel Cutout

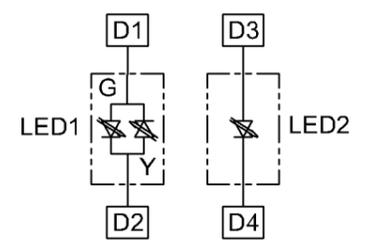
754 SERIES MAGNETIC CIRCUIT



C1 = 1000pF. 2kV CAPACITOR
 R1-R4 = 75 OHMS, 1/16 W RESISTOR



Suggested PCB Layout (Component Side)



LED Configuration FOR 5-6605782-5 ONLY

OBsolete

YES	GREEN	YES	GREEN	YES	6-6605782-1
YES	GREEN	NO	YELLOW	NO	5-6605782-8
YES	GREEN/YELLOW	NO	GREEN	NO	5-6605782-5
YES	GREEN	YES	YELLOW	YES	5-6605782-1
NO	GREEN	YES	GREEN	YES	1-6605782-1

DECOUPLING CAP	LED1	250 OHM RESISTORS	LED2	250 OHM RESISTORS	PART NUMBER
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THIS DRAWING IS A CONTROLLED DOCUMENT.		REV L VARELA - DOCKS	Tyco Electronics Corporation	
DIMENSIONS: INCHES		CHK D. FAROLE	Tyco Electronics ChangPing, China	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PROD D. FAROLE	NAME	
0 PLG	± .005	PRODUCT SPEC	1X1 MAG45(TM) MODULAR JACK, 754	
1 PLG	± .010	APPLICATION SPEC	SCHEMATIC 754 SERIES MAGNETIC CIRCUIT, SHIELDED,	
2 PLG	± .015		OPTIONAL DECOUPLING CAPACITOR, WITH LEADS	
3 PLG	± .020		SIZE	DATE CODE
4 PLG	± .025		A1	00779
ANGLES	± .005		DRAWING NO	6605782
FINISH	± .005		RESTRICTED TO	
CUSTOMER DRAWING		SCALE	NTS	SHEET 1 OF 1