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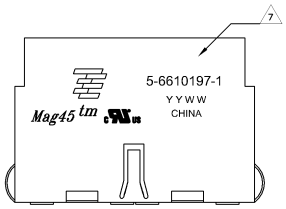
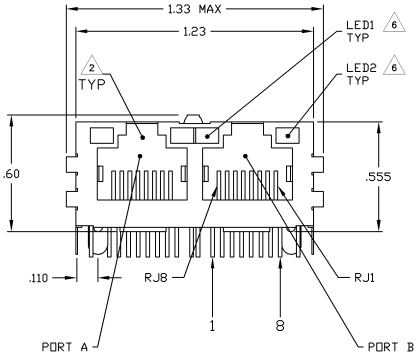
LOC	DIST
AA	22

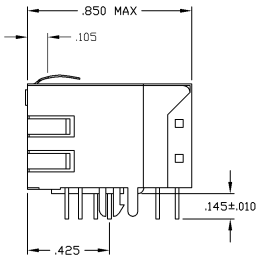
REVISIONS

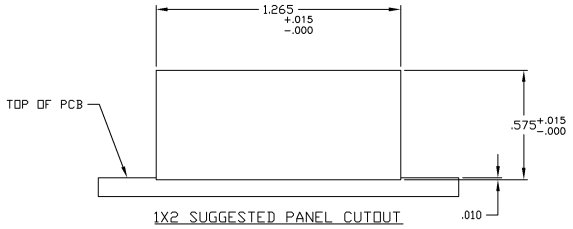
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	REV ECO-09-000297	13MAR2009	VL	LR

MECHANICAL:









1X2 SUGGESTED PANEL CUTOUT

1. 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 - 0.015" 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 100µIN 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:
-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 -40°C TO +85°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 -40°C TO +85°C

5. INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

6. LEDS WITH BUILT-IN RESISTOR
LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ VF=5V
FORWARD CURRENT (IF): GREEN 12mA TYP @ VF=5V
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ VF=5V
FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF=5V

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

8. THE PART IS 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.

YES	GREEN	YELLOW	5-6610197-1
DECOUPLING CAPACITOR	LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DRN	G. ATTADIA -- DOCX3 17MAR2005
CHK	D. FABOLE 17MAR2005
APVD	D. FABOLE 17MAR2005
RELEASED PER	108-2100
APPLICATION SPEC	--
WEIGHT	--

Tyco Electronics — Tyco Electronics Corporation, Chang'Ping, China

DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED: 2 PLC ±.1, 3 PLC ±.010, 4 PLC ±.005, 5 PLC ±.-, ANGLES ±.-
MATERIAL: 1
FINISH: 1

NAME: 1X2 MAG45(TM) MODULAR JACK, 7N2 SCHEMATIC, 726 ET SERIES CIRCUIT, SHIELDED, WITH LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6610197	--

CUSTOMER DRAWING | SCALE 1:1 | SHEET 1 OF 2 | REV B

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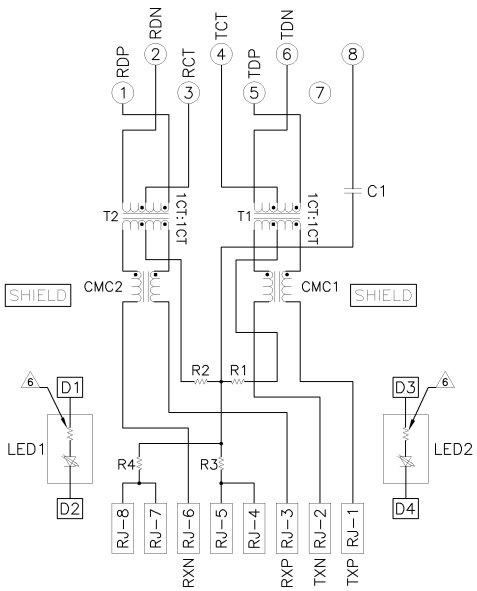
LOC	DWT
AA	22

REVISIONS

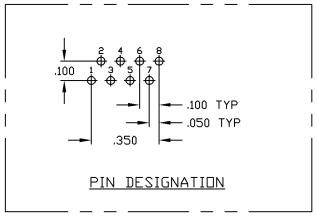
P	LTR	DESCRIPTION	DATE	DWN	APVD
–	SEE SHEET 1		–	–	–

726 ET SERIES MAGNETIC CIRCUIT

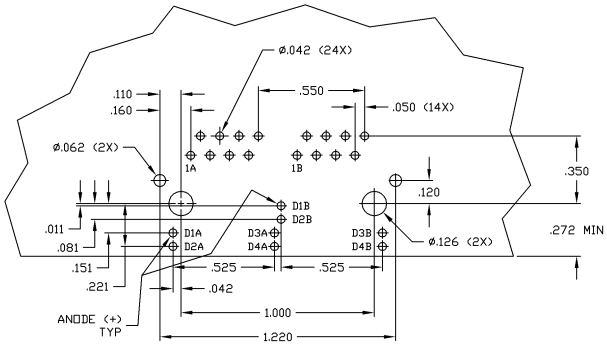


C1 = 1000pF, 2KV CAPACITOR

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



PIN DESIGNATION



SUGGESTED PCB LAYOUT
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.	SPEC G. ATTADIA – 17MAY2005 DOCKS	Tyco Electronics	Tyco Electronics Corporation ChangPing, China
DIMENSIONS: INCHES	CHK D. FAROLE 17MAY2005		
TOLERANCES UNLESS OTHERWISE SPECIFIED: 2 PLC ± – 3 PLC ± .010 4 PLC ± .005 5 PLC ± – ANGLES ± – FINISH –	APVD D. FAROLE 17MAY2005	NAME	1X2 MAG45(TM) MODULAR JACK, 7N2 SCHEMATIC, 726ET SERIES CIRCUIT, SHIELDED, WITH LEDS
	PRODUCT SPEC 108-2100		
	APPLICATION SPEC –	SIZE A1	CAGE CODE 00779 DRAWING NO C-6610197
MATERIAL –	WEIGHT –		RESTRICTED TO –
	CUSTOMER DRAWING	SCALE 4:1	SHEET 2 OF 2 REV B

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