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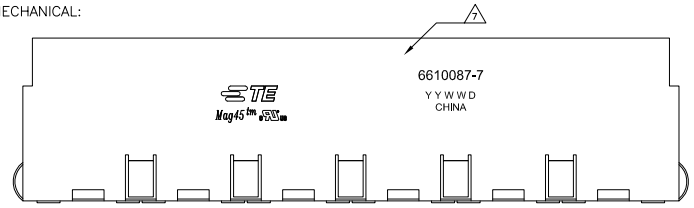
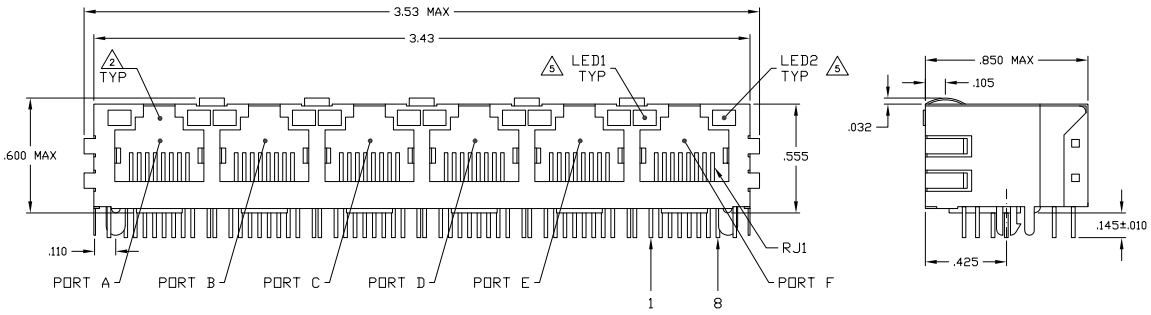
LOC	DIST
AA	22

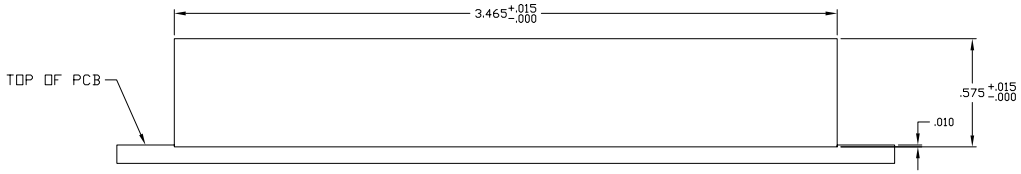
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	C	REV PER ECO-08-024024	02SEP2008	VL	TX
	D	ECO-11-013351	20MAY2011	EL	LR

MECHANICAL:







1X6 SUGGESTED PANEL CUTOUT

1. MATERIALS:
-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
-SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30 µINCH MIN SEMI-BRIGHT NICKEL SOLDER TABS POST DIPPED WITH 100 µINCH MIN SAC SOLDER.
-MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50 µINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50 µINCH MIN HARD GOLD FINISH PLATE. SOLDERTAILS WITH 100 µINCH 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 80 µINCH SILVER OVER 40 µINCH NICKEL UNDERPLATE OVER 40 µINCH COPPER UNDERPLATE. POST-PLATED WITH 100 µIN 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 (CMP-CABLE): TX = 1:1, RX = 1:1
-OPEN CIRCUIT INDUCTANCE (OCL): 350 µH 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): 16dB 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

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

5. 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 (-D): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V 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 (-D): GREEN 568 nm TYP. @ VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V

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

7. TE CONNECTIVITY 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.

250 OHMS RESISTOR 5	LED1	250 OHMS RESISTOR 5	LED2	PART NUMBER
NO	GREEN	NO	GREEN	6610087-7
YES	GREEN	YES	GREEN	6-6610087-1

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DRN	1 TRANSFER	TE Connectivity
L. VARELA — DOCKS		
CHK	1 TRANSFER	
D. FAROLF		
APVD	1 TRANSFER	DATE
D. FAROLF		

DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± .1
2 PLC ± .03
3 PLC ± .010
4 PLC ± –
ANGLES ± –
MATERIAL 1
FINISH 1

PRODUCT SPEC: 108-2100
APPLICATION SPEC: —
WEIGHT: —

1X6 MAG45(TM) MODULAR JACK, 7K1 SCHEMATIC, 766 SERIES MAG CIRCUIT, DECOUPLING CAPACITOR, SHIELDED, WITH LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6610087	—

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 2 | REV D

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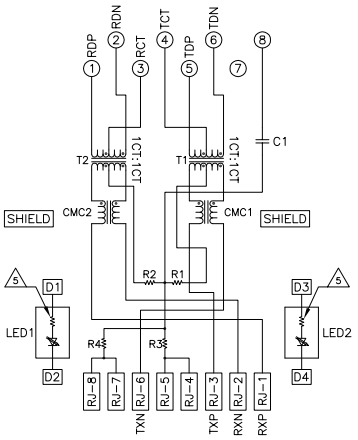
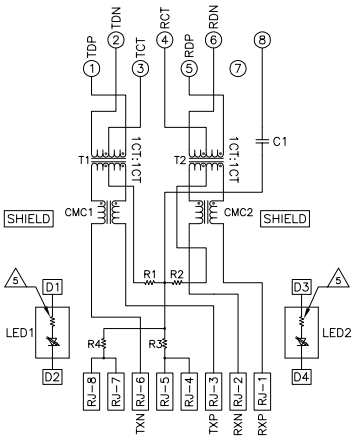
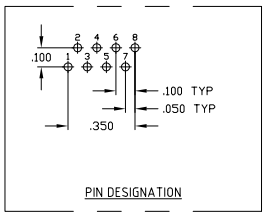
LOC	DIST	REVISIONS				
AA	22	P	LTR	DESCRIPTION	DATE	DWN	APVD
		--	--	SEE SHEET 1	--	--	--

766K1 SERIES MAGNETIC CIRCUIT 3 6
PORTS A,C,E



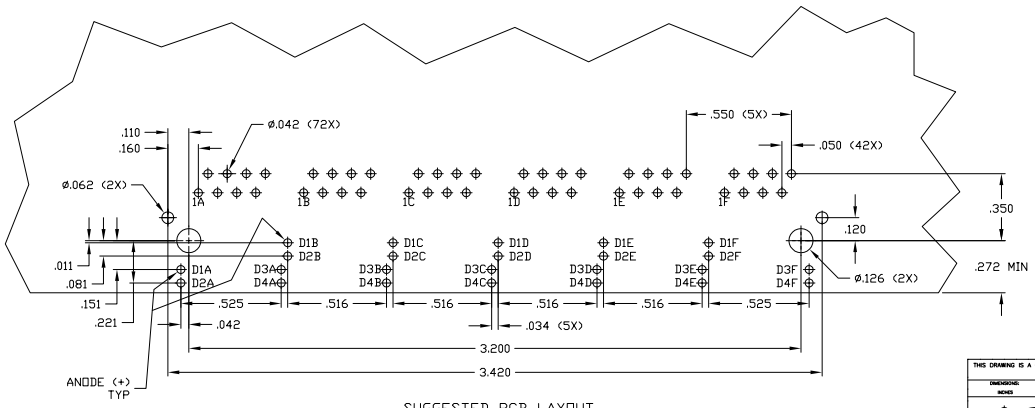
766K1 SERIES MAGNETIC CIRCUIT 3 6
PORTS B,D,F





C1 = 1000pF, 3 kV CAPACITOR

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



SUGGESTED PCB LAYOUT
(COMPONENT SIDE)

THIS DRAWING IS A CONTROLLED DOCUMENT.
DIMENSIONS: INCHES
MATERIAL: --
FINISH: --
DRN: L. VARELA -- DOCKS
CHK: D. FAROLF
APVD: D. FAROLF
PRODUCT SPEC: 108-2100
APPLICATION SPEC: --
WEIGHT: --
CUSTOMER DRAWING

TE Connectivity

1X6 MAG45(TM) MODULAR JACK, 7K1 SCHEMATIC, 766 SERIES MAG CIRCUIT, DECOUPLING CAPACITOR, SHIELDED, WITH LEDS

SIZE: A1 | CAGE CODE: 00779 | DRAWING NO: C-6610087 | RESTRICTED TO: --
SCALE: 4:1 | SHEET: 2 OF 2 | REV: D

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