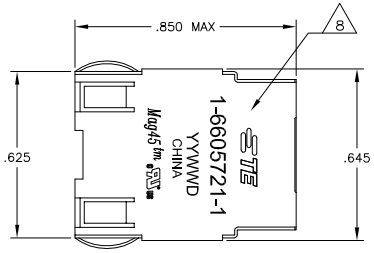
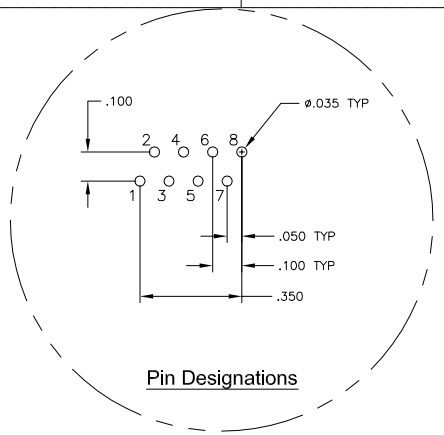
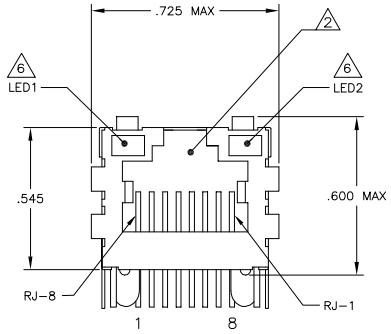
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION -,- -

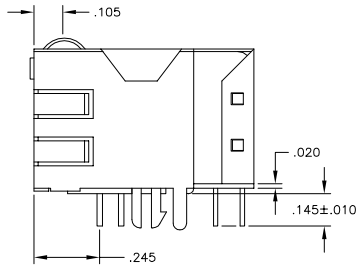
MECHANICAL:



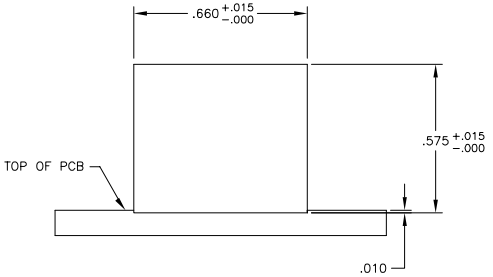


Pin Designations

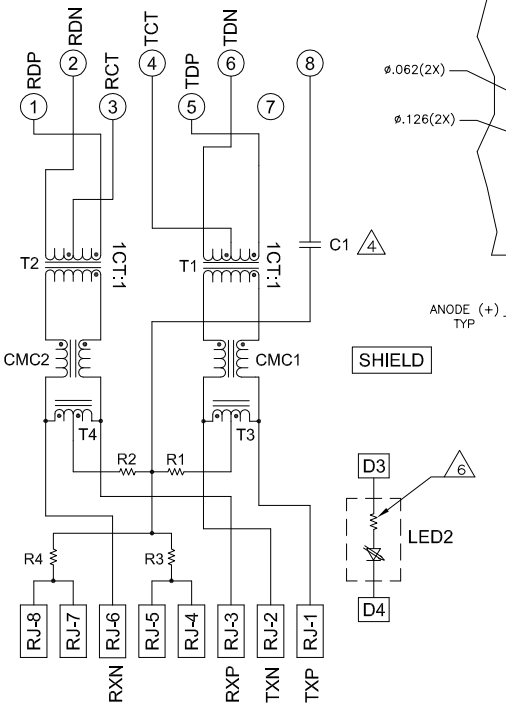




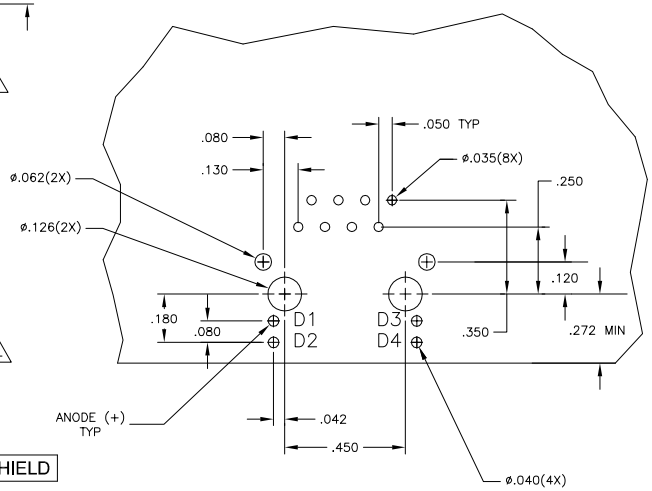
715 SERIES MAGNETIC CIRCUIT 3 7



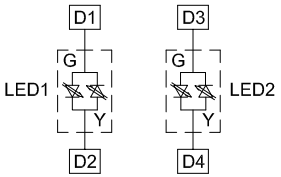
Suggested Panel Cutout



C1 = 1000 pF, 2kV DECOUPLING CAPACITOR
R1-R4 = 75 OHMS, 1/16W, 5% RESISTORS



Suggested PCB Layout
(Component Side)



LED Configuration
FOR 6605721-6 ONLY

LOC	DIST
AA	22

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	REV PER ECO-08-017726	03JUL2008	QL	TX
	B1	REV PER ECO-10-000444	20JAN2010	KK	HMR
	C	ECO-11-015766	30MAY2011	EL	LR

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 - 0.0157 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.

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 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:2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

4 C1 IS AN OPTIONAL. IF NO CAPACITOR, TRACE IS CONTINUOS.

5. OPERATING TEMPERATURE: FROM 0° - +70°C

6 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 (λD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA.
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): ORANGE 2.05V 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 (λD): GREEN 568 nm TYP. @ VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

7 INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND SUPPORTS AUTO-MDI/MDIX.

8 TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

9. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 265°C, 10SECONDS MAX.

10 OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

	LED RESISTOR 6	4 DECOUPLING CAPACITOR	6 LED1	6 LED2	PART NUMBER
OBSOLETE	NO	YES	GREEN	YELLOW	~~5-6605721-8~~
	YES	YES	YELLOW	GREEN	5-6605721-2
	YES	YES	GREEN	YELLOW	5-6605721-1
10 OBSOLETE	NO	NO	GREEN/YELLOW	GREEN/YELLOW	~~6605721-6~~

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ANGLES ± -

MATERIAL 1

FINISH 1

DWN G. ATTADIA – DOCK5 11MAR05
CHK D. FAROLE 11MAR05
APVD D. FAROLE 11MAR05
PRODUCT SPEC 108-2100
APPLICATION SPEC –
WEIGHT –

TE Connectivity

NAME 1X1 MAG45(TM) MODULAR JACK, 7N2
SCHEMATIC 715 SERIES MAGNETIC CIRCUIT, SHIELDED, OPTIONAL DECOUPLING CAPACITOR, WITH LEDS

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-6605721 | RESTRICTED TO –

CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 1 | REV C