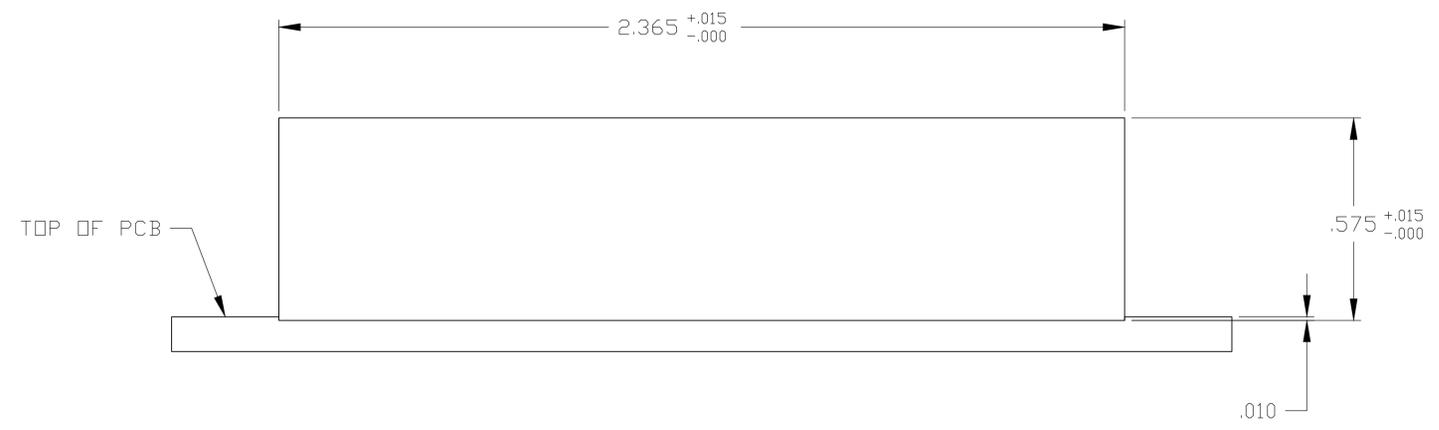
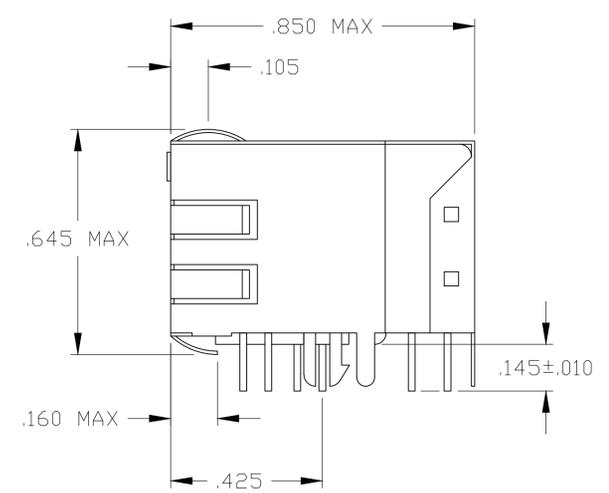
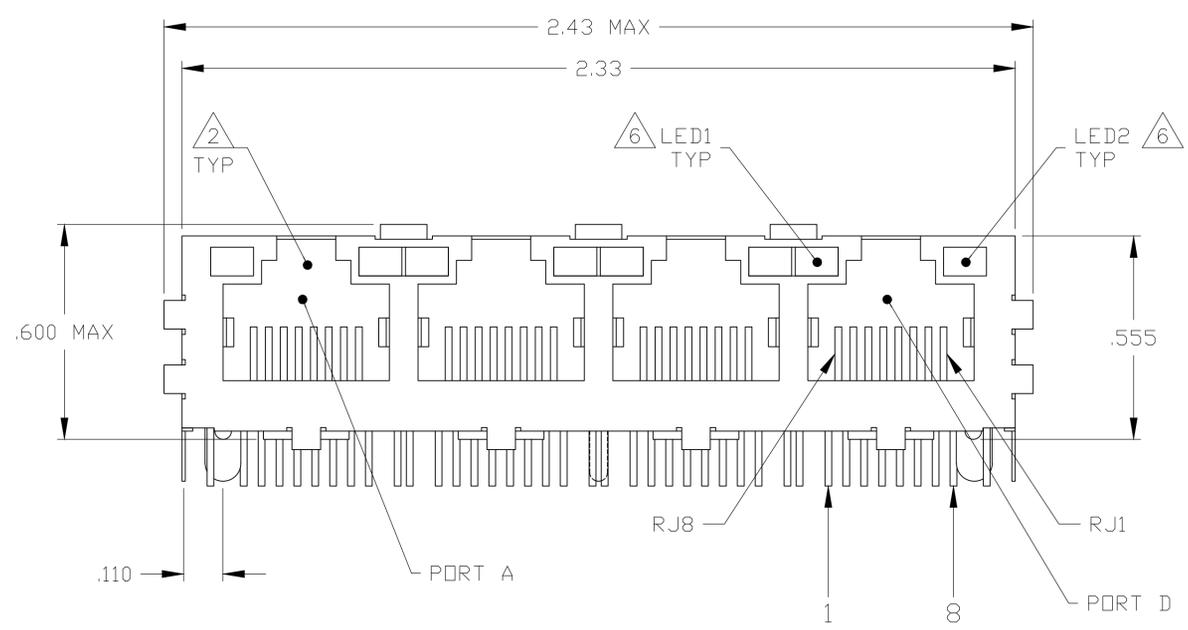
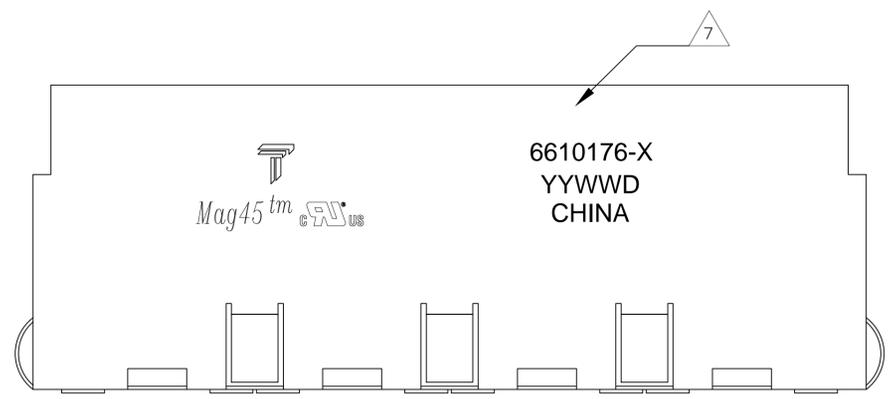


REVISIONS				
#	LTR	DESCRIPTION	DATE	DWN APD
E		LOGO CHANGE	07APR2013	QL KZ

MECHANICAL:

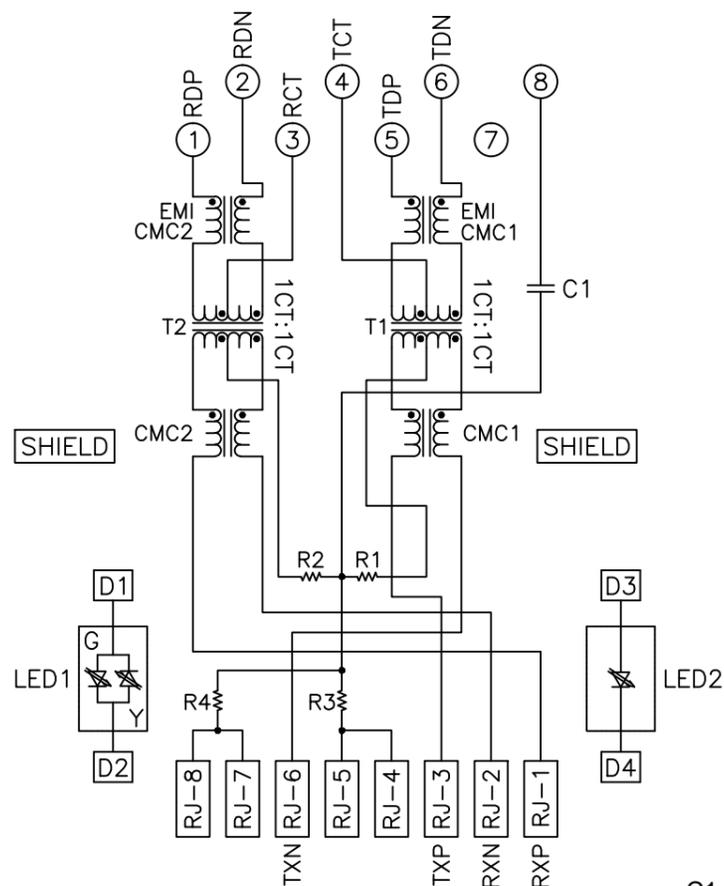


1X4 SUGGESTED PANEL CUTOUT

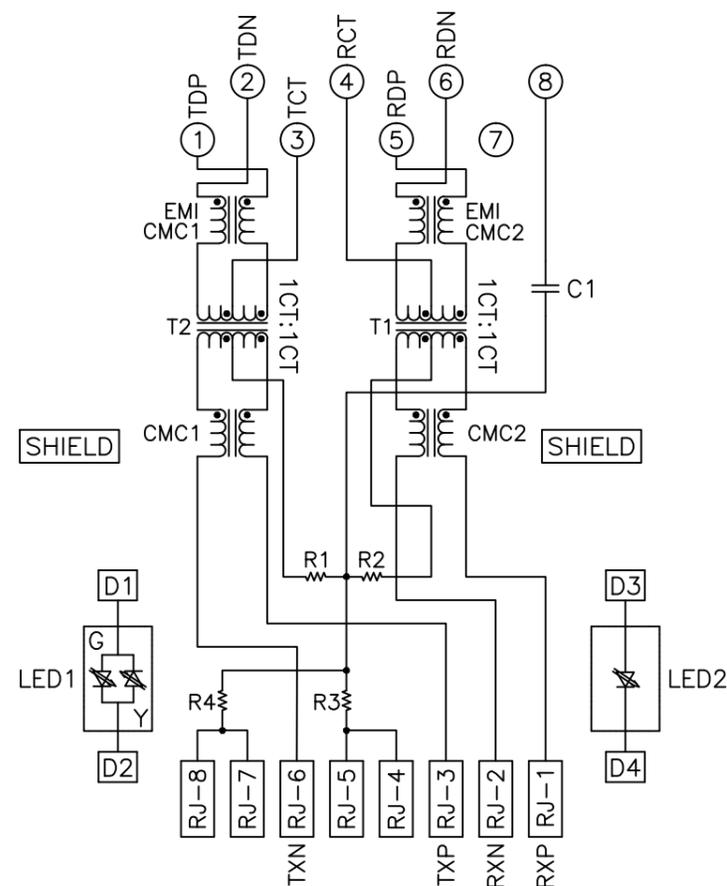
- ⚠️ **MATERIALS:**
 - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
 - MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE. SOLDER TAILS 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.
- ⚠️ 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
 - 33-20xLOG(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 SYMMETRICAL AND SUPPORT AUTO-MDIX.
- ⚠️ 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
- ⚠️ TRP CONNECTOR 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.

4	1	GREEN/YELLOW	GREEN	6610176-5
BOTTOM PANEL GROUND TABS	REAR GROUND TABS	LED1 ⚠️	LED2 ⚠️	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: G. ATTADIA - 16MAR2005 CHK: D. FAROLE - 16MAR2005 APD: D. FAROLE - 16MAR2005		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± .010 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ANGLES ± - FINISH ⚠️		
PRODUCT SPEC: 108-2100 APPLICATION SPEC: - WEIGHT: - CUSTOMER DRAWING		NAME: 1X4 MAG45(TM) MODULAR JACK, 7K1 SCHEMATIC, 746K1 MAGNETIC CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, LEDs, S3 GROUND TABS SIZE: A1 CAGE CODE: 00779 DRAWING NO: 6610176 SCALE: 4:1 SHEET 1 OF 2 REV E		

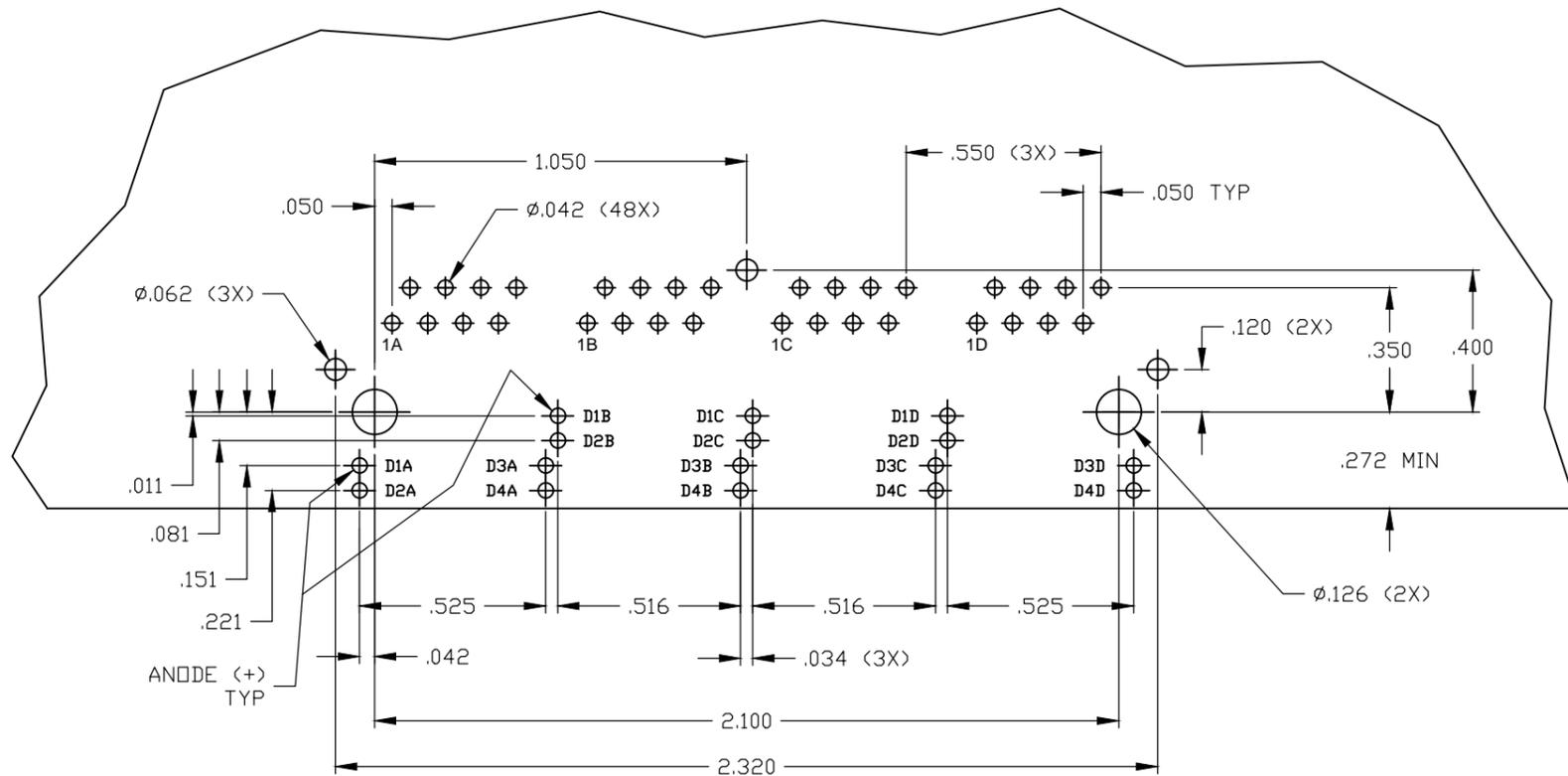
746K1 SERIES MAGNETIC CIRCUIT PORTS 1 & 3



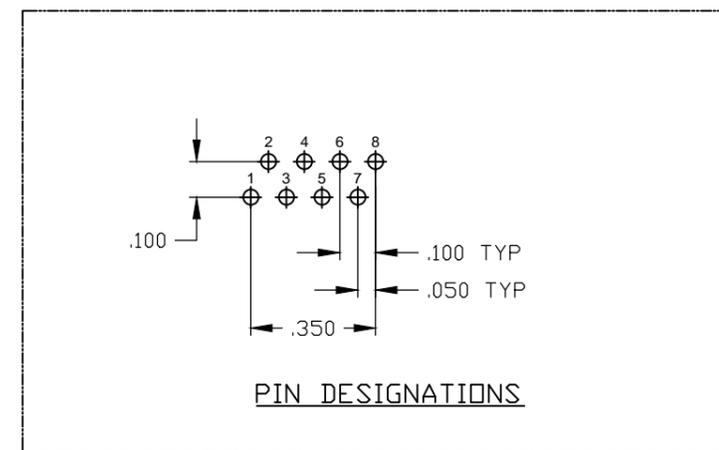
746K1 SERIES MAGNETIC CIRCUIT PORTS 2 & 4



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



SUGGESTED PCB LAYOUT
(Component Side)



PIN DESIGNATIONS

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN G. ATTADIA - DOCK5 16MAR2005	TRP connector Dongguan China
DIMENSIONS: INCHES		CHK D. FAROLE 16MAR2005	APPRO D. FAROLE 16MAR2005
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC 108-2100	NAME 1X4 MAG45(TM) MODULAR JACK, 7K1 SCHEMATIC, 746K1 MAGNETIC CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, LEADS, S3 GROUND TABS
0 PLC ± .		APPLICATION SPEC	SIZE A1
1 PLC ± .010		WEIGHT	CAGE CODE 00779
2 PLC ± .005		FINISH	DRAWING NO C-6610176
3 PLC ± .		MATERIAL	RESTRICTED TO
4 PLC ± .		ANGLE	SCALE 4:1
MATERIAL		FINISH	SHEET 2 OF 2
CUSTOMER DRAWING		SCALE 4:1	REV E