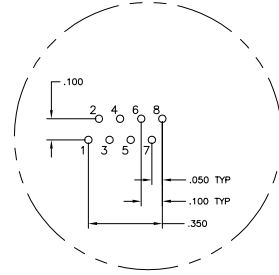
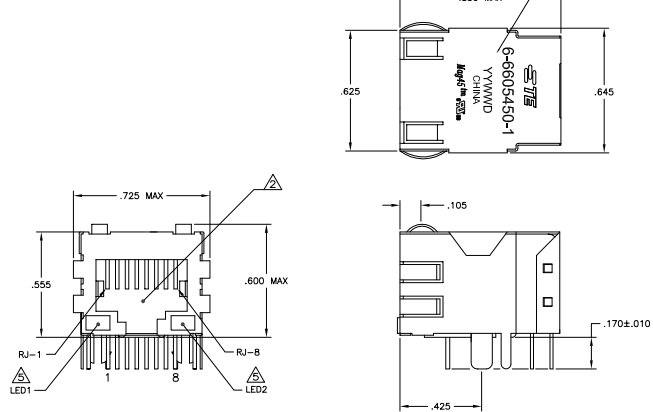


| REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|------|-----------------------|----|-----|-----|
| AA | 22 | | | | |
| C | | REV PER ECO-08-028508 | | | |
| D | | ECO-11-015768 | | | |

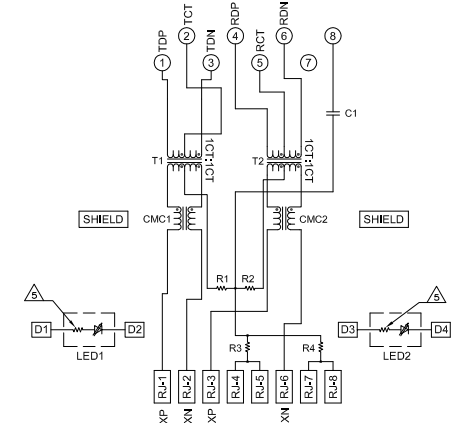
MECHANICAL:



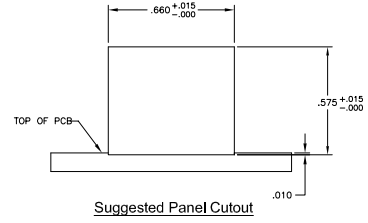
Pin Designations

ELECTRICAL:

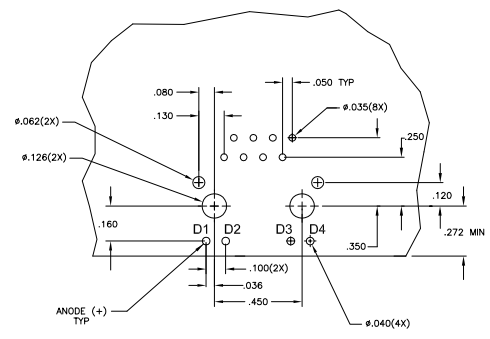
426P1 SERIES MAGNETIC CIRCUIT



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



Suggested Panel Cutout



Suggested PCB Layout (Component Side)

- MATERIALS:**
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
SHIELD - .016" THICK, C8000 BRASS PREPLATED WITH 30UMIN MIN SEM-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100UMIN MIN SAC SOLDER
MSD JACK CONTACTS - 6.055X 8.50W PHOSPHOR BRONZE, .50UMIN MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50UMIN MIN HARD GOLD FINISH PLATE. SOLDER TABS WITH 100UMIN MIN MATTE TIN AND/OR SAC SOLDER DIP
LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .027" X .027" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80UMIN SILVER OVER 40UMIN NICKEL UNDERPLATE OVER 40UMIN COPPER UNDERPLATE. POST-PLATED WITH 100UMIN MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP
- MAGNETICS:**
-IMPEDANCE: 100 OHMS
-TURNING RATIO (ENP CABLE): TX = 11, RX = 11
-OPEN CIRCUIT INDUCTANCE (OCL): 350 nH MIN @ 800kHz, 5 V RMS
-BIAS: FROM 0°C TO 70°C, TX AND RX
-PERFORMANCE @ 25°C
INSERTION LOSS (IL): 1.5dB MAX FROM 5.5MHz TO 100MHz
RETURN LOSS (RL): 10dB MIN FROM 0.5MHz TO 30MHz
18 - 20dBS/30dB MIN FROM 35 MHz TO 40MHz
10dB MIN FROM 40 MHz TO 80MHz
CROSSTALK ATTENUATION: 30dB MIN FROM 0.5MHz TO 40MHz
33 - 20dBS/30dB MIN FROM 40 MHz 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. OPERATING TEMPERATURE FROM 0°C TO +70°C
- 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 (LD): GREEN 568 nm TYP. ; F=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. ; F=20mA
DOMINANT WAVELENGTH (LD): YELLOW 588 nm TYP. ; F=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. ; F=20mA
IF THE LED WITH 250 OHM RESISTOR IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
LED COLOR: DOMINANT WAVELENGTH (LD): GREEN 568 nm TYP. ; VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. ; VF=5V
- INDICATED CONNECTIONS ARE FOR NICKEL CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-INSERTION.**
- TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROPRIATE LOCATIONS SHOWN.**
- THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS. PREHEAT TEMPERATURE IS 150°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.**

| GREEN | YES | GREEN | YES | 6-6605450-1 |
|--------|-----|--------|-----|-------------|
| YELLOW | NO | GREEN | NO | 5-6605450-9 |
| GREEN | NO | YELLOW | NO | 5-6605450-8 |
| GREEN | NO | GREEN | NO | 5-6605450-7 |

| LED1 | 250 OHM RESISTOR | LED2 | 250 OHM RESISTOR | PART NUMBER |
|------|------------------|------|------------------|-------------|
| | | | | 6-6605450-1 |

THIS DRAWING IS A CONTROLLED DOCUMENT. IN THE EVENT OF A DISCREPANCY BETWEEN THIS DRAWING AND THE PART, THE PART SHALL PREVAIL.

DESIGNER: [] DATE: []
CHECKED: [] DATE: []
APPROVED: [] DATE: []

1X1 MAG40(TN), 42P1 10/100 ETHERNET SCHEMATIC, 426P1 MAGNETIC CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LED.

REV: [] DATE: []
REV: [] DATE: []

100-2100

100779 6-6605450

CUSTOMER DRAWING