

## SAFETY ORGANIZATIONS

THIS FILTER HAS BEEN FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS HAVE BEEN MET:

UL RECOGNIZED: UL 1283  
CSA CERTIFIED: CSA C22.2 No. 8  
VDE APPROVED: EN 60939-2

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 6 AMP, 120/250 VAC,  
6 AMP/40°C, 250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 0.25 mA @ 120V 60Hz  
0.50 mA @ 250V 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT,  $I_r$ .

IN AN AMBIENT,  $T_a$ , HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT,  $I_o$ , IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{45}}$$

## RELIABILITY SPECIFICATIONS:

STORAGE TEMPERATURE: -40°C TO +85°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES  $I_r$  FOR 8 SECONDS

## TEST SPECIFICATIONS:

INDUCTANCE: 6.2mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.006  $\mu$ F ±20%  
LINE TO LINE: 2.0  $\mu$ F ±20%  
DISCHARGE RESISTOR: 165K  $\Omega$   
L/G AND L/L I.R.  
NO DISCHARGE RESISTOR: 6000M $\Omega$  (MIN.) @ 100VDC, 20°C AND 50% RH

## RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 1500 VAC FOR 1 MINUTE  
LINE TO LINE: 1450 VDC FOR 1 MINUTE

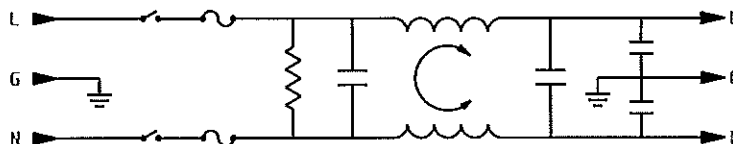
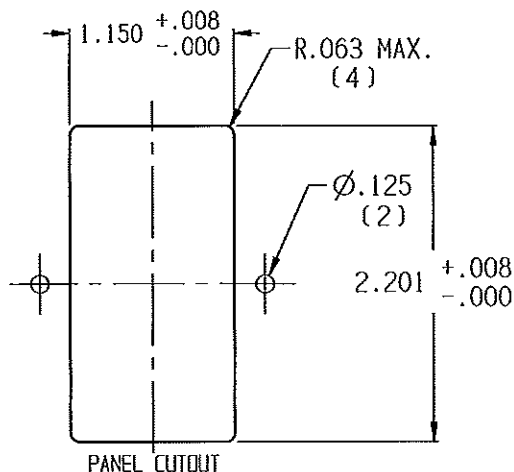
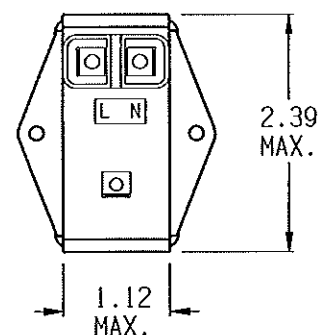
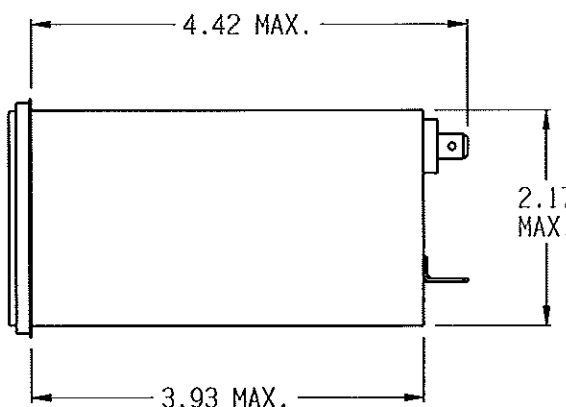
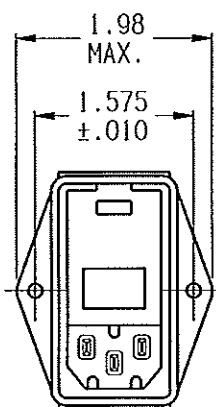
## FILTER APPROVAL:

THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

## CUSTOMER DRAWING

CATALOG # PE000SZ6C

| ECN#      | APPRVD             | DATE    |
|-----------|--------------------|---------|
| 09-013614 | <i>[Signature]</i> | 27AUG09 |



## 50 $\Omega$ - 50 $\Omega$ (MINIMUM) INSERTION LOSS

| FREQUENCY<br>MHz | .01 | .05 | .10 | .15 | .50 | 1.0 | 5.0 | 10.0 | 30.0 | / | / | / |
|------------------|-----|-----|-----|-----|-----|-----|-----|------|------|---|---|---|
| COMMON<br>dB     | 8   | 21  | 27  | 30  | 37  | 43  | 49  | 52   | 42   | / | / | / |
| DIFF.<br>dB      | 10  | 15  | 34  | 44  | 75  | 75  | 75  | 70   | 60   | / | / | / |

PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED  
TOLERANCE TO BE ±0.025  
MATERIAL & FINISH: AS SUPPLIED

## NOTES:



**Tyco Electronics**

CORPORATION, 620 S. BUTTERFIELD RD., MANDALEIN IL 60050

## POWER LINE FILTER

TYCO ELECTRONICS PART NO. 6609109-7

|              |               |             |
|--------------|---------------|-------------|
| SCALE: NTS   | DATE: 28APR00 | REV.:       |
| DRW. BY: LJO | DRG: MAC      | PE000SZ6C A |

PE000SZ6C-A.c4d

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