

# CUSTOMER DRAWING

CATALOG # 10EGG8-1

| ECN #     | APPRVD. | DATE    |
|-----------|---------|---------|
| 08-010595 | ELC     | 21NOV08 |

## 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 22.2, # 8  
VDE APPROVED: EN 60939-2

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 10 AMP/40°, 120/250VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 0.22mA @ 120V, 60Hz  
0.38mA @ 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:

$$I_o = I_r \sqrt{\frac{100 - T_a}{60}}$$

## 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: 0.27mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.0053μF ±20%  
LINE TO LINE: 0.101μF ±20%  
DISCHARGE RESISTOR: 1.5MΩ  
L/G AND L/L I.R.: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

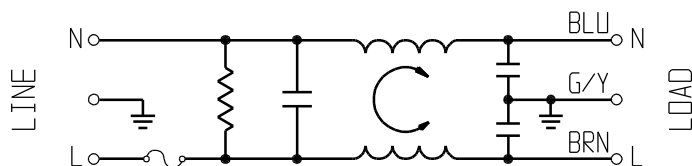
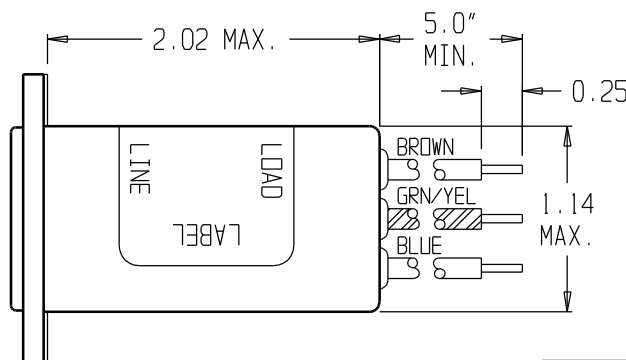
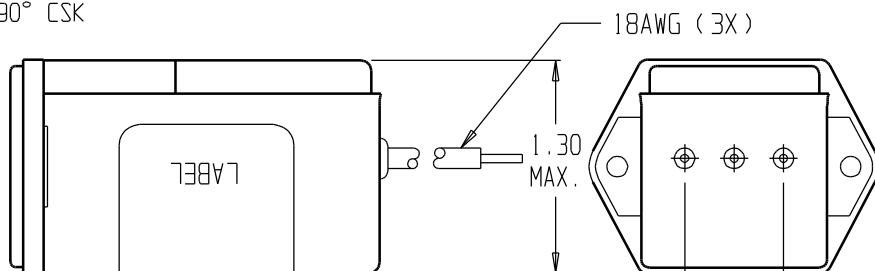
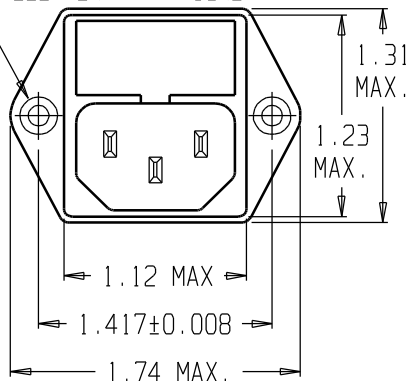
## RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 1500VAC OR 2250VDC FOR 1 MINUTE  
LINE TO LINE: 1450VDC FOR 1 MINUTE

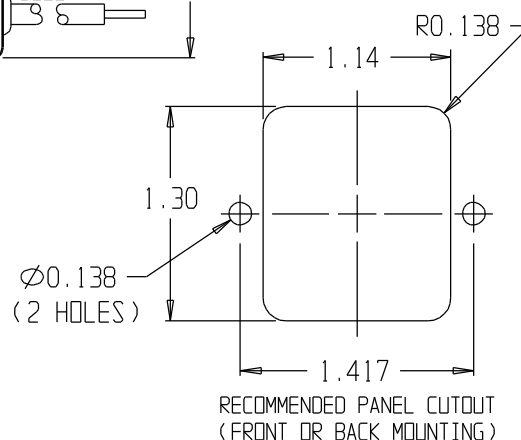
## FILTER APPROVAL:

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

Ø 0.126±0.01 WITH Ø 0.228 REF X 90° CSK  
HOLE FOR #4 FH SCREW



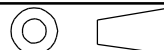
FUSE: 5mm X 20mm (2X)



## 50Ω- 50Ω (MINIMUM) INSERTION LOSS

| FREQUENCY<br>MHz | 0.01 | 0.05 | 0.07 | 0.15 | 0.5 | 1.0 | 2.0 | 5.0 | 10 | 20 | 30 |
|------------------|------|------|------|------|-----|-----|-----|-----|----|----|----|
| COMMON<br>dB     | 0    | 1    | 2    | 4    | 6   | 8   | 16  | 26  | 33 | 48 | 28 |
| DIFF.<br>dB      | 1    | 2    | 4    | 7    | 17  | 23  | 24  | 22  | 43 | 40 | 38 |

THIRD ANGLE  
PROJECTION



UNLESS OTHERWISE SPECIFIED,  
TOLERANCE TO BE ±.025  
MATERIAL & FINISH: AS SUPPLIED

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## POWER LINE FILTER

|                           |             |       |         |
|---------------------------|-------------|-------|---------|
| TYCO ELECTRONICS PART NO. | 3-1609115-5 | REV.  | 0       |
| SCALE:                    | NTS         | DATE: | 12MAY08 |
| DRW. BY:                  | SD          | ORIG: | ELC     |
| CATALOG NO.               | 10EGG8-1    |       |         |