

**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<sub>r</sub>.

IN AN AMBIENT, T<sub>0</sub>, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I<sub>0</sub>, IS AS FOLLOWS:  

$$I_0 = I_r \sqrt{\frac{100 - T_0}{60}}$$

**RELIABILITY SPECIFICATIONS:**

STORAGE TEMPERATURE: -40°C TO +85°C  
 HUMIDITY: 21 DAYS @ 40°C 95% RH.  
 CURRENT OVERLOAD TEST: 6 TIMES I<sub>r</sub> FOR 8 SECONDS

**TEST SPECIFICATIONS:**

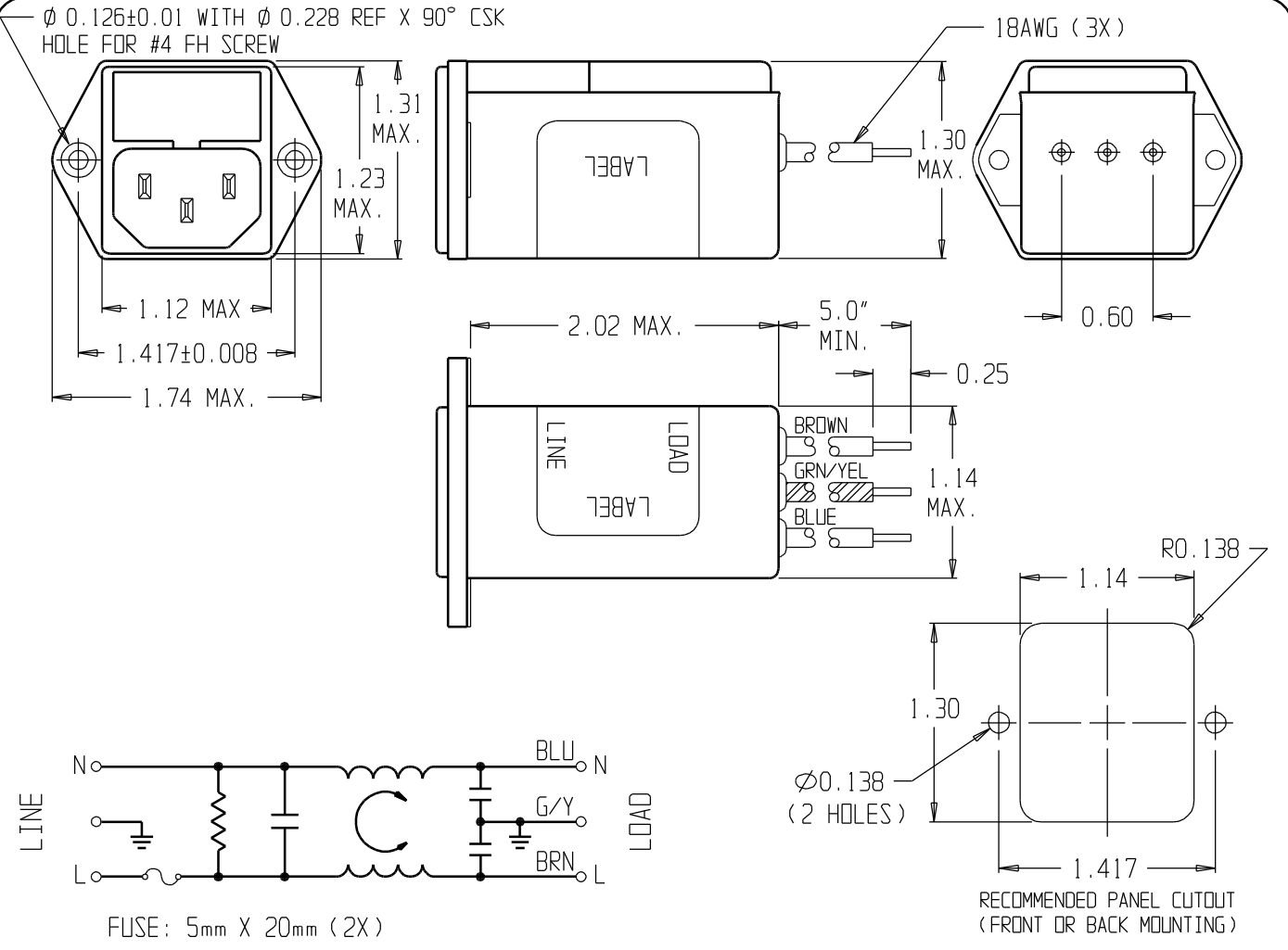
INDUCTANCE: 0.27mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: 0.0053µF ±20%  
 LINE TO LINE: 0.101µF ±20%  
 DISCHARGE RESISTOR: 1.5MΩ  
 L/G AND L/L I.R.: NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

**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.



**50Ω - 50Ω (MINIMUM) INSERTION LOSS**

FREQUENCY MHz	0.01	0.05	0.07	0.15	0.5	1.0	2.0	5.0	10	20	30
COMMON dB	0	1	2	4	6	8	16	26	33	48	28
DIFF. 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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 HARRISBURG, PENNSYLVANIA USA

**Tyco Electronics**  
 CORCOM PRODUCTS, 620 S. BUTTERFIELD RD. MUNDELEIN IL 60060

**POWER LINE FILTER**

TYCO ELECTRONICS PART NO. 3-1609115-5  
 SCALE: NTS DATE: 12MAY08  
 CATALOG NO. 10EGG8-1  
 REV. 0

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