

## 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: 3 AMP/40°, 120/250VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND:

|                     |
|---------------------|
| 2.0μ A @ 120V, 60Hz |
| 5.0μ A @ 250V, 50Hz |

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

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

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

## 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: 1.99mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: N/A  
LINE TO LINE: 0.10μF ±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:

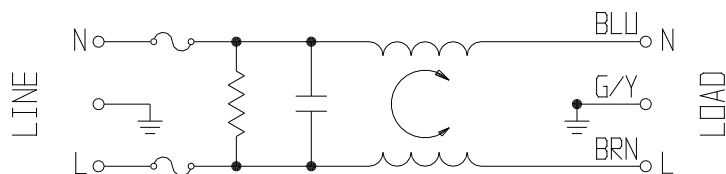
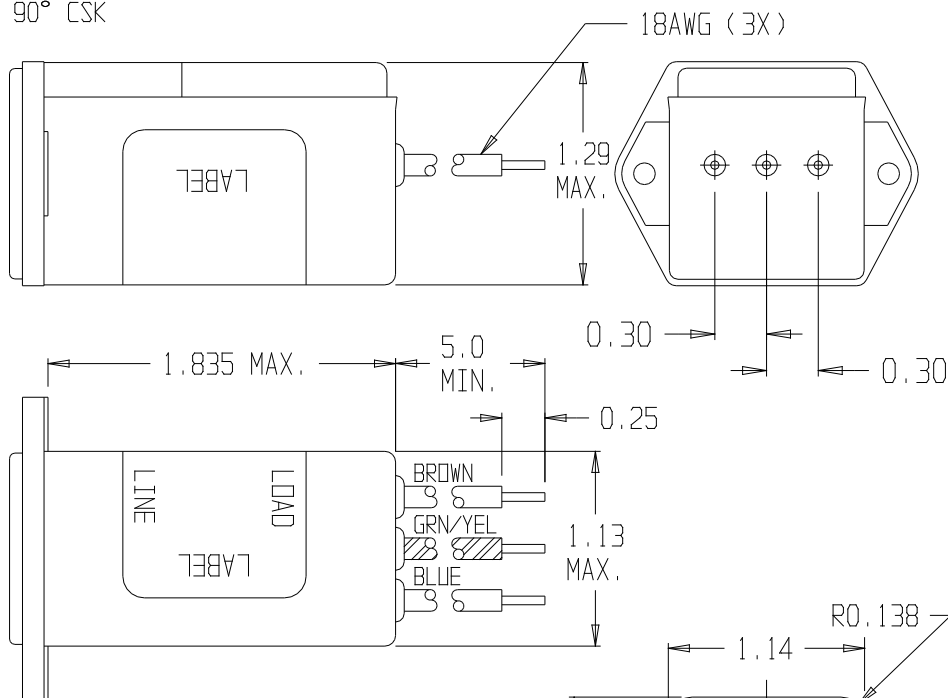
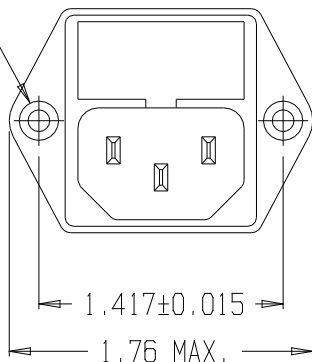
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

## CUSTOMER DRAWING

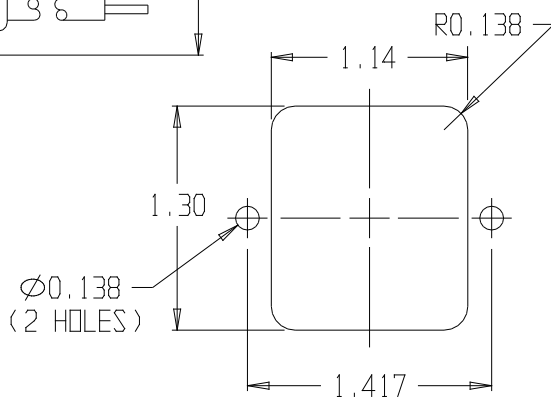
CATALOG # 3EHG8-2

| ECN # | APPRVD. | DATE    |
|-------|---------|---------|
|       | TAM     | 24APR08 |

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



FUSE: 5mm X 20mm (2X)



RECOMMENDED PANEL CUTOUT  
(FRONT OR BACK MOUNTING)

| 50Ω - 50Ω (MINIMUM) INSERTION LOSS |                                                                                                                                                                                                                                                                                                                |      |      |     |     |     |    |    |    |   |   |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----|-----|-----|----|----|----|---|---|
| FREQUENCY<br>MHz                   | 0.05                                                                                                                                                                                                                                                                                                           | 0.10 | 0.15 | 0.5 | 1.0 | 5.0 | 10 | 20 | 30 | / | / |
| COMMON<br>dB                       | 11                                                                                                                                                                                                                                                                                                             | 16   | 19   | 25  | 26  | 22  | 21 | 21 | 21 | / | / |
| DIFF.<br>dB                        | -                                                                                                                                                                                                                                                                                                              | 4    | 7    | 16  | 23  | 30  | 30 | 30 | 30 | / | / |
| SHEET SIZE                         | THIRD ANGLE PROJECTION                                                                                                                                                                                                                                                                                         |      |      |     |     |     |    |    |    |   |   |
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PARTS SHALL COMPLY WITH TYCO ELECTRONICS 230-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

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

NOTES:

CVM  
AVAILABLE

YES NO

G:\KeyCreator Directories\CD

3EHG8-200.cxd



**Tyco Electronics**

CORCOM PRODUCTS, 620 S. BUTTERFIELD RD. MUNDELEIN IL 60060

CUSTOMER DRAWING 3EHG8-2

TYCO ELECTRONICS PART NO. 1-1609117-5

|             |               |                         |        |
|-------------|---------------|-------------------------|--------|
| SCALE: NTS  | DATE: 24APR08 | DRAWING NUMBER: 3EHG8-2 | REV. 0 |
| DRW. BY: SD | ORIG: TAM     |                         |        |