

## 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: 16 AMP, 120/250 VAC,  
16 AMP/40°C, 250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 0.10 mA @ 120V 60Hz  
0.20 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:

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

## RELIABILITY SPECIFICATIONS:

STORAGE TEMPERATURE: -40°C TO +100°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH,  
CURRENT OVERLOAD TEST: 6 TIMES  $I_r$  FOR  
8 SECONDS

## TEST SPECIFICATIONS:

INDUCTANCE: 1.3 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.002  $\mu$ F ±20%  
LINE TO LINE: 0.471  $\mu$ F ±20%  
DISCHARGE RESISTOR: 680K  $\Omega$   
L/G AND L/L I.R.  
NO DISCHARGE RESISTOR: 6000M $\Omega$  (MIN.) @ 100VDC,  
20°C AND 50% RH

## RECOMMENDED RECEIVING INSPECTION HIPOT:

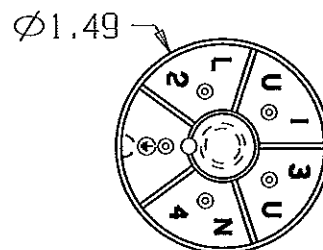
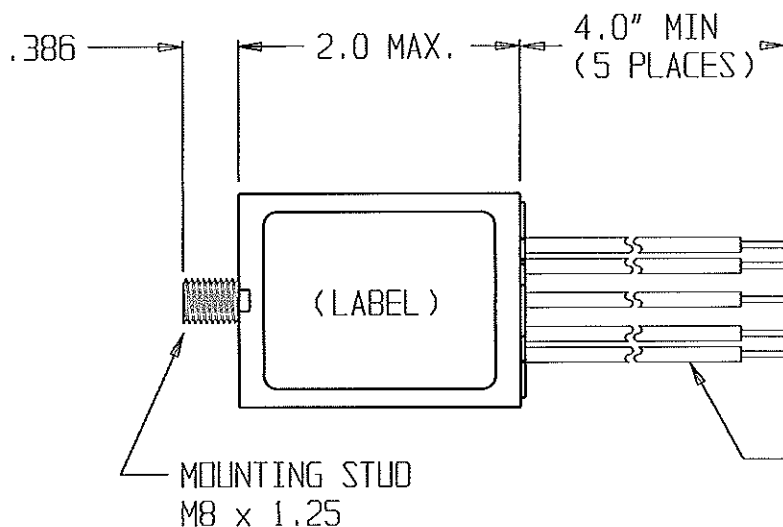
LINE TO GROUND: 1500 VAC FOR 1 MINUTE  
LINE TO LINE: 1450 VDC FOR 1 MINUTE

## FILTER APPROVAL:

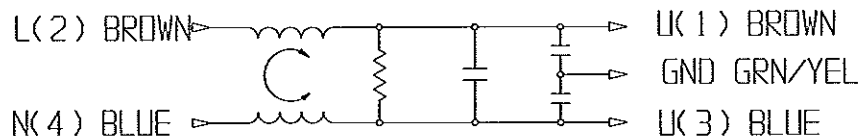
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

CATALOG # 16WGE3

| ECN #     | APPROV. | DATE    |
|-----------|---------|---------|
| 09-020711 | PJP     | 18SEP09 |



## SCHEMATIC



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

| FREQUENCY<br>MHz | .05 | .1 | .15 | .5 | 1  | 2  | 5  | 10 | 20 | 30 |
|------------------|-----|----|-----|----|----|----|----|----|----|----|
| COMMON<br>dB     | 12  | 17 | 21  | 27 | 30 | 32 | 35 | 40 | 46 | 52 |
| DIFF.<br>dB      | 16  | 23 | 25  | 36 | 44 | 50 | 62 | 62 | 60 | 52 |

THIRD ANGLE  
PROJECTION



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

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**Tyco Electronics**

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

**POWER LINE FILTER**

|                                       |             |               |             |      |
|---------------------------------------|-------------|---------------|-------------|------|
| TYCO ELECTRONICS PART NO: 8-6609089-0 | SCALE: 0.75 | DATE: 09DEC05 | CATALOG NO. | REV. |
| DRW. BY: PJO                          | ORIG: PJO   |               | 16WGE3      | 2    |