

### 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: 2.1 mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: 0.002µF ±20%  
 LINE TO LINE: 0.471 µF ±20%  
 DISCHARGE RESISTOR: 680K Ω  
 L/G AND L/L I.R.  
 NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC,  
 20°C AND 50% RH

### RECOMMENDED RECEIVING INSPECTION HIPOT:

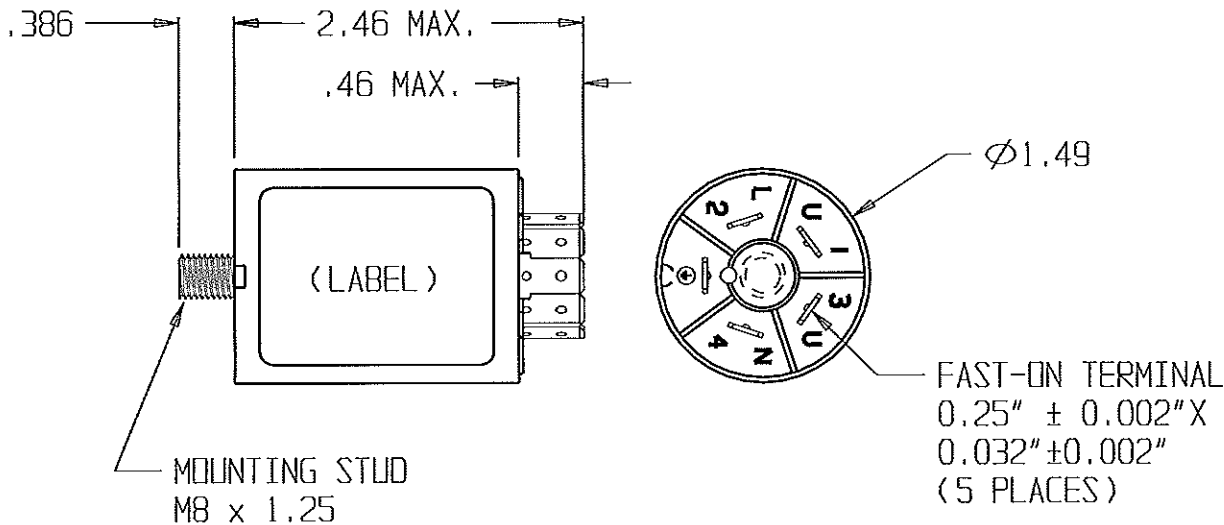
LINE TO GROUND: 1500 VAC FOR 1 MINUTE  
 LINE TO LINE: 1450 VDC FOR 1 MINUTE

### FILTER APPROVAL:

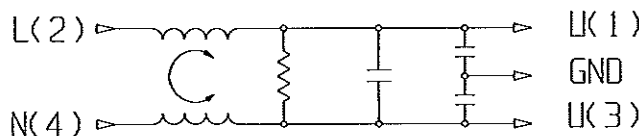
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

CATALOG # 16WGF1

ECN #	APPRVD.	DATE
09-020711	<i>[Signature]</i>	18SEP09



SCHMATIC



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

FREQUENCY MHz	.05	.1	.15	.5	1	2	5	10	20	30
COMMON dB	9	14	18	24	26	28	31	32	37	44
DIFF. dB	13	19	22	33	40	49	58	59	50	44

THIRD ANGLE  
 PROJECTION



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

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 HARRISBURG, PENNSYLVANIA USA

**Tyco Electronics**

CORIN PRODUCTS, 620 S. BUTTERFIELD RD. HUNDELEIN IL 60060

### POWER LINE FILTER

TYCO ELECTRONICS PART NO: 4-6609089-B		DATE: 20OCT04	CATALOG NO.	REV.
SCALE: 0.75	16WGF1		3	
DRW. BY: P.JD	DRG: P.JD			

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[16WGF1](#)