

**CUSTOMER DRAWING**

**CATALOG # 16WGA7**

ECN #	APPRVD.	DATE
09-020709	<i>[Signature]</i>	09SEP09

**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: 0.76 mA @ 120V 60Hz  
1.27 mA @ 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 +100°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH,  
CURRENT OVERLOAD TEST: 6 TIMES I<sub>r</sub> FOR  
8 SECONDS

**TEST SPECIFICATIONS:**

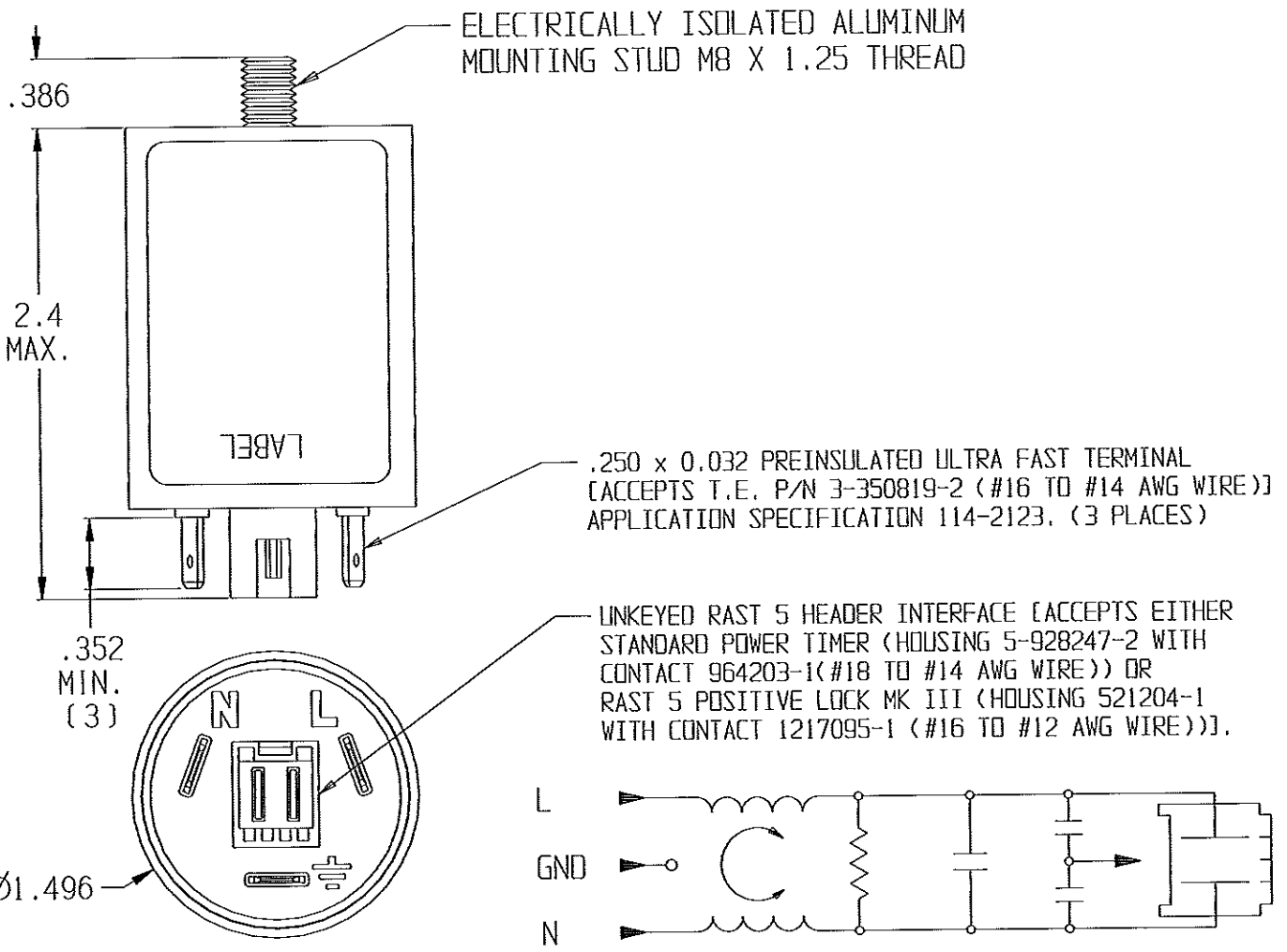
INDUCTANCE: 0.5 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.02 µF ±20%  
LINE TO LINE: 0.475 µF ±20%  
DISCHARGE RESISTOR: 680K Ω  
L/G AND L/L I.R.  
NO DISCHARGE RESISTOR: 6000M Ω (MIN.) @ 100VDC,  
20°C AND 50% RH

**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.



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS												
FREQUENCY MHz	.05	.1	.15	.5	1	2	5	10	20	30	/	/
COMMON dB	3	10	14	33	41	47	54	50	37	30	/	/
DIFF. dB	14	19	22	33	41	51	47	42	48	50	/	/

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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

**Tyco Electronics**  
CORPORATION PRODUCTS, 620 S. BUTTERFIELD RD. HUNDELEIN IL 60060

**POWER LINE FILTER**

TYCO ELECTRONICS PART NO. 3-1609090-8

SCALE: NTS DATE: 23MAR07 DRAWING NUMBER: 16WGA7 REV: 5

DRW. BY: PJD DRG: PJD

CVM AVAILABLE YES NO

6INKeyCreator Director/tes@D 16WGA705.cxd