

CUSTOMER DRAWING		
CATALOG # 16WGD7		
ECN #	APPROV.	DATE
09-020709	<i>MJ</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: 0.10 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:

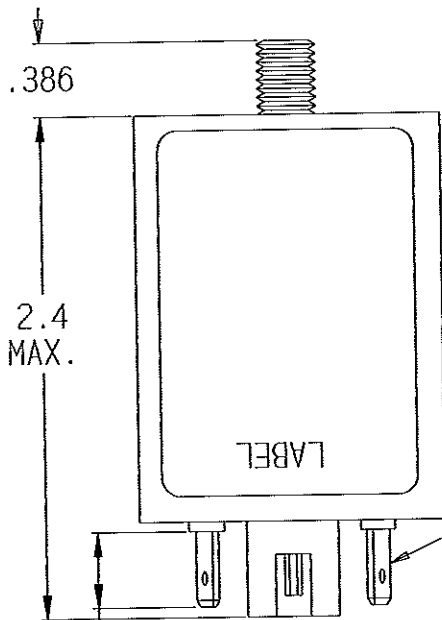
INDUCTANCE: 0.5 mH NOMINAL
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
LINE TO GROUND: 0.002µF ±20%
LINE TO LINE: 0.471 µF ±20%
DISCHARGE RESISTOR: 680K Ω
L/G AND L/L I.R.
NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

RECOMMENDED RECEIVING INSPECTION HIPOT:

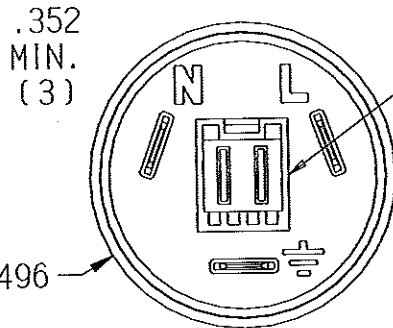
LINE TO GROUND: 1500 VAC FOR 1 MINUTE
LINE TO LINE: 1450 VDC FOR 1 MINUTE

FILTER APPROVAL:

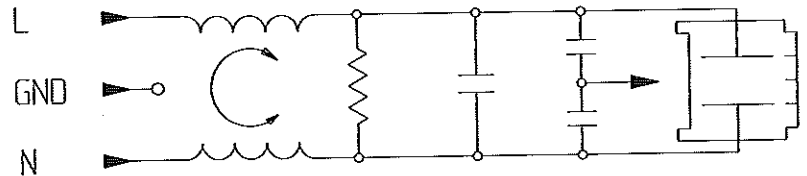
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.



.250 x 0.032 PREINSULATED ULTRA FAST TERMINAL (ACCEPTS T.E. P/N 3-350819-2 (#16 TO #14 AWG WIRE)) APPLICATION SPECIFICATION 114-2123. (3 PLACES)



UNKEYED RAST 5 HEADER INTERFACE (ACCEPTS EITHER STANDARD POWER TIMER (HOUSING 5-928247-2 WITH CONTACT 964203-1 (#18 TO #14 AWG WIRE)) OR RAST 5 POSITIVE LOCK MK III (HOUSING 521204-1 WITH CONTACT 1217095-1 (#16 TO #12 AWG WIRE))).



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS												
FREQUENCY kHz	.05	.1	.15	.5	1	2	5	10	20	30	/	/
COMMON dB	3	8	11	22	26	31	31	33	40	44	/	/
DIFF. dB	13	19	22	33	40	48	58	57	54	45	/	/

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:
TYCO ELECTRONICS PART NO. 4-1609090-1

SHEET SIZE: A (triangle), D (square), C (circle)
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CVM AVAILABLE	YES	NO
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SCALE: NTS	DATE: 23MAR07	DRAWING NUMBER: 16WGD7	REV: 6
DRW. BY: PJO	DR16: PJO		

Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[16WGD7](#) [4-1609090-1](#)