

## 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 PENDING  
VDE APPROVED: EN 60939-2 PENDING

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 20 AMP, 120/250 VAC,  
20 AMP/40°C, 250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 2μ AMP @ 120V 60Hz  
5μ AMP @ 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:

$$I_o = I_r \sqrt{\frac{85 - T_a}{45}}$$

## 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: 4.55 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: NA μF±20%  
LINE TO LINE: .74 μF±20%  
DISCHARGE RESISTOR: .470 MΩ  
L/R 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

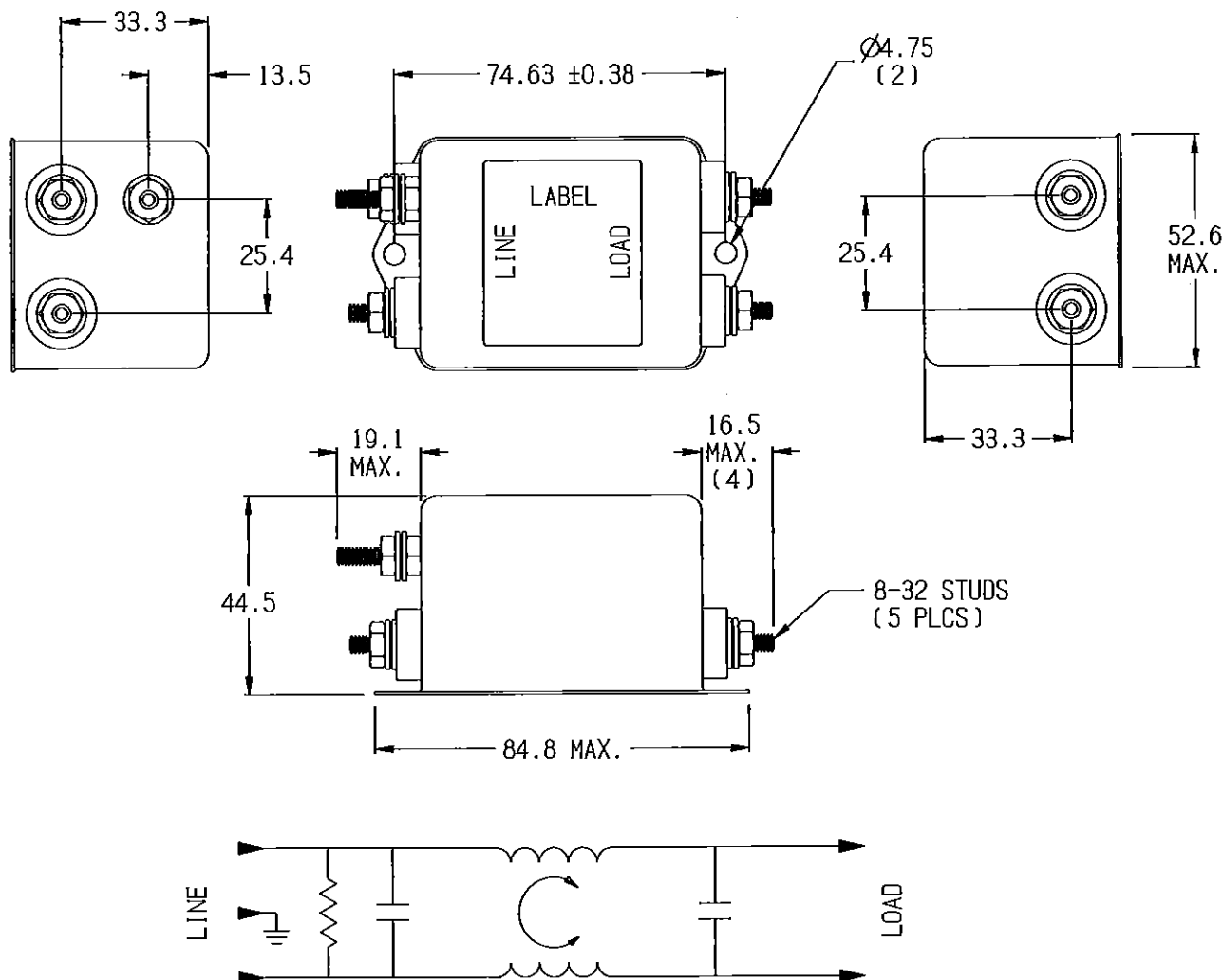
## FILTER APPROVAL:

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

## CUSTOMER DRAWING

CATALOG # 20EHZ6

| ECN#      | APPRVD | DATE    |
|-----------|--------|---------|
| 13-007605 | TAM    | 06MAY13 |



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

| FREQUENCY<br>MHz | .01 | .05 | .1 | .15 | .5 | 1.0 | 2.0 | 5.0 | 10 | 20 | 30 | / |
|------------------|-----|-----|----|-----|----|-----|-----|-----|----|----|----|---|
| COMMON<br>dB     | 5   | 19  | 24 | 28  | 31 | 29  | 20  | 14  | 9  | 6  | 4  | / |
| DIFF.<br>dB      | /   | /   | 11 | 9   | 54 | 77  | 80  | 74  | 69 | 58 | 49 | / |

PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED  
TOLERANCE TO BE ±0.64  
MATERIAL & FINISH: AS SUPPLIED  
DIMENSIONS IN MILLIMETERS

### NOTES:

**TE** TE Connectivity

### POWER LINE FILTER

TE PART NO.: 3-1609037-9

| SCALE:   | DATE:   | DRAWING NUMBER: | REV. |
|----------|---------|-----------------|------|
| 5/8      | 25APR13 | 20EHZ6          | A    |
| DRW. BY: | CHKD:   |                 |      |
| LJD      | TAM     |                 |      |



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20EHZ6-A.cld

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