

**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 22.2, # 8  
 VDE APPROVED: EN 133200

**OPERATING SPECIFICATIONS**

LINE CURRENT/VOLTAGE: 10 AMP/40°C, 120/250VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
 EACH LINE TO GROUND: 0.21mA @ 120V, 60Hz  
 0.36mA @ 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 +85°C  
 HUMIDITY: 21 DAYS @ 40°C 95% RH.  
 CURRENT OVERLOAD TEST: 6 TIMES I<sub>r</sub> FOR 8 SECONDS

**TEST SPECIFICATIONS:**

INDUCTANCE: 0.495mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: 0.005µF ±20%  
 LINE TO LINE: 0.201µF ±20%  
 DISCHARGE RESISTOR: 1.5MΩ  
 L/G AND L/L I.R.: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH  
 NO DISCHARGE RESISTOR:

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

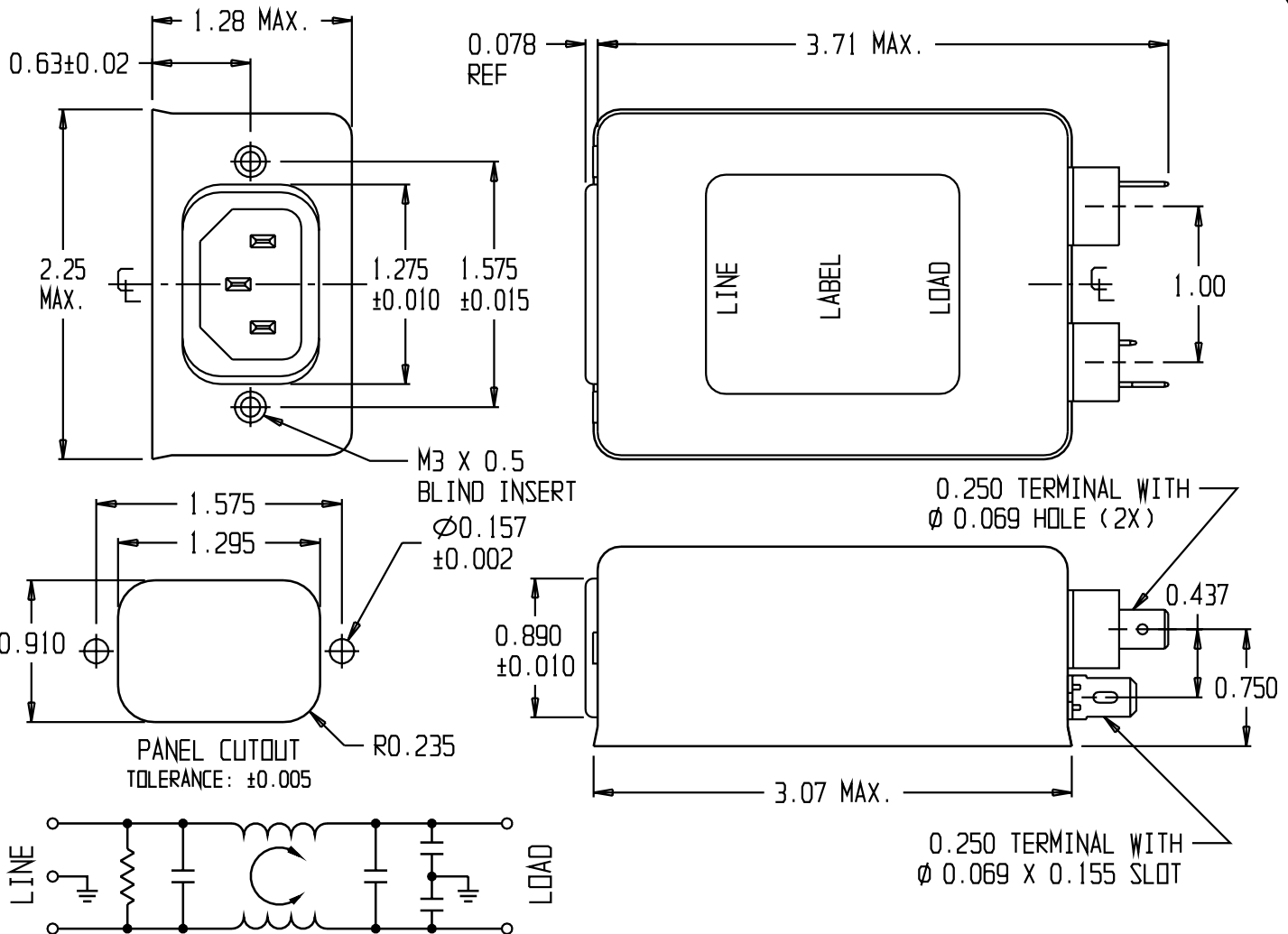
LINE TO GROUND: 1500VAC OR 2250VDC FOR 1 MINUTE  
 LINE TO LINE: 1450VDC FOR 1 MINUTE

**FILTER APPROVAL:**

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

**CATALOG # 10EK7M**

| ECD # | APPRVD. | DATE   |
|-------|---------|--------|
|       | KAW     | 6DEC06 |



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

| FREQUENCY MHz | 0.15 | 0.5 | 1.0 | 2.0 | 5.0 | 10 | 20 | 30 |  |  |
|---------------|------|-----|-----|-----|-----|----|----|----|--|--|
| COMMON dB     | 10   | 20  | 25  | 32  | 38  | 40 | 45 | 48 |  |  |
| DIFF. dB      | 10   | 2   | 35  | 55  | 65  | 65 | 50 | 50 |  |  |

THIRD ANGLE PROJECTION

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

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 620 S. BUTTERFIELD ROAD MUNDLEIGH IL 60060

**CUSTOMER DRAWING 10EK7M**

|                   |            |               |                    |        |
|-------------------|------------|---------------|--------------------|--------|
| TYCO: 1-6609027-6 | SCALE: NTS | DATE: 12SEP89 | CATALOG NO. 10EK7M | REV. B |
| DRW. BY: JF       | DRG: CW    |               |                    |        |

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