

**CUSTOMER DRAWING**

**CATALOG # 10VRK1**

| EC #      | APPROV. | DATE    |
|-----------|---------|---------|
| 07-026900 | PJD     | 13NOV07 |

**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 (TRACEABLE TO F4340)
- CSA CERTIFIED: CSA 22.2, # 0.0.4.8 (TRACEABLE TO F4340)
- VDE APPROVED: EN 133 200 (TRACEABLE TO F4340)

**OPERATING SPECIFICATIONS**

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

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT, EACH LINE TO GROUND:  
 0.16 mA @ 120V 60Hz  
 0.28 mA @ 250V 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT, I<sub>r</sub>.

IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{100 - T_a}{60}}$$

**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:**

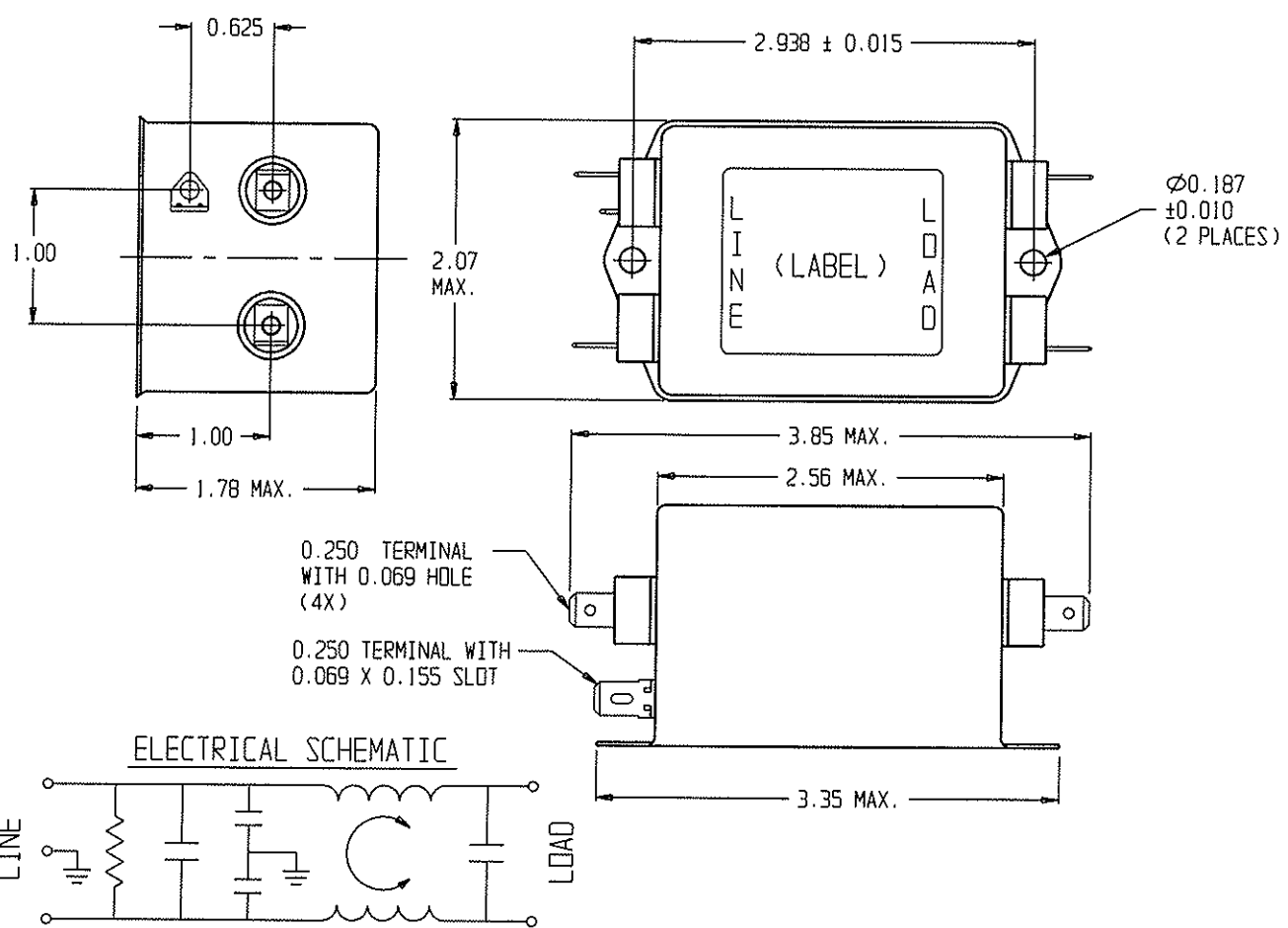
- INDUCTANCE: 4.97 mH NOMINAL
- CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
  - LINE TO GROUND: 0.0044 µF ±20%
  - LINE TO LINE: 0.741 µF ±20%
- DISCHARGE RESISTOR: 1.0MΩ
- L/G AND L/L I.R.
- NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

- LINE TO GROUND: 2250 VDC 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.



SHALL COMPLY WITH TYCO ELECTRONICS 230-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

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

| FREQUENCY MHz | .05 | .10 | .15 | .50 | 1.0 | 2.0 | 5.0 | 10 | 20 | 30 |
|---------------|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| COMMON dB     | 20  | 27  | 31  | 45  | 45  | 44  | 46  | 47 | 53 | 44 |
| DIFF. dB      | 14  | 12  | 30  | 65  | 80  | 84  | 78  | 70 | 60 | 50 |

THIRD ANGLE PROJECTION

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

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**Tyco Electronics**  
 CORCON PRODUCTS, 620 S. BUTTERFIELD RD., MUNDLEIN IL 60060

**POWER LINE FILTER**

TYCO ELECTRONICS PART NO. 2-1609089-5

|             |               |                    |        |
|-------------|---------------|--------------------|--------|
| SCALE: NTS  | DATE: 01FEB08 | CATALOG NO. 10VRK1 | REV. 1 |
| DRW. BY: JF | DRG: PJD      |                    |        |