

**CUSTOMER DRAWING**

**CATALOG # 10VRK1**

EC #	APPRVD.	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:**

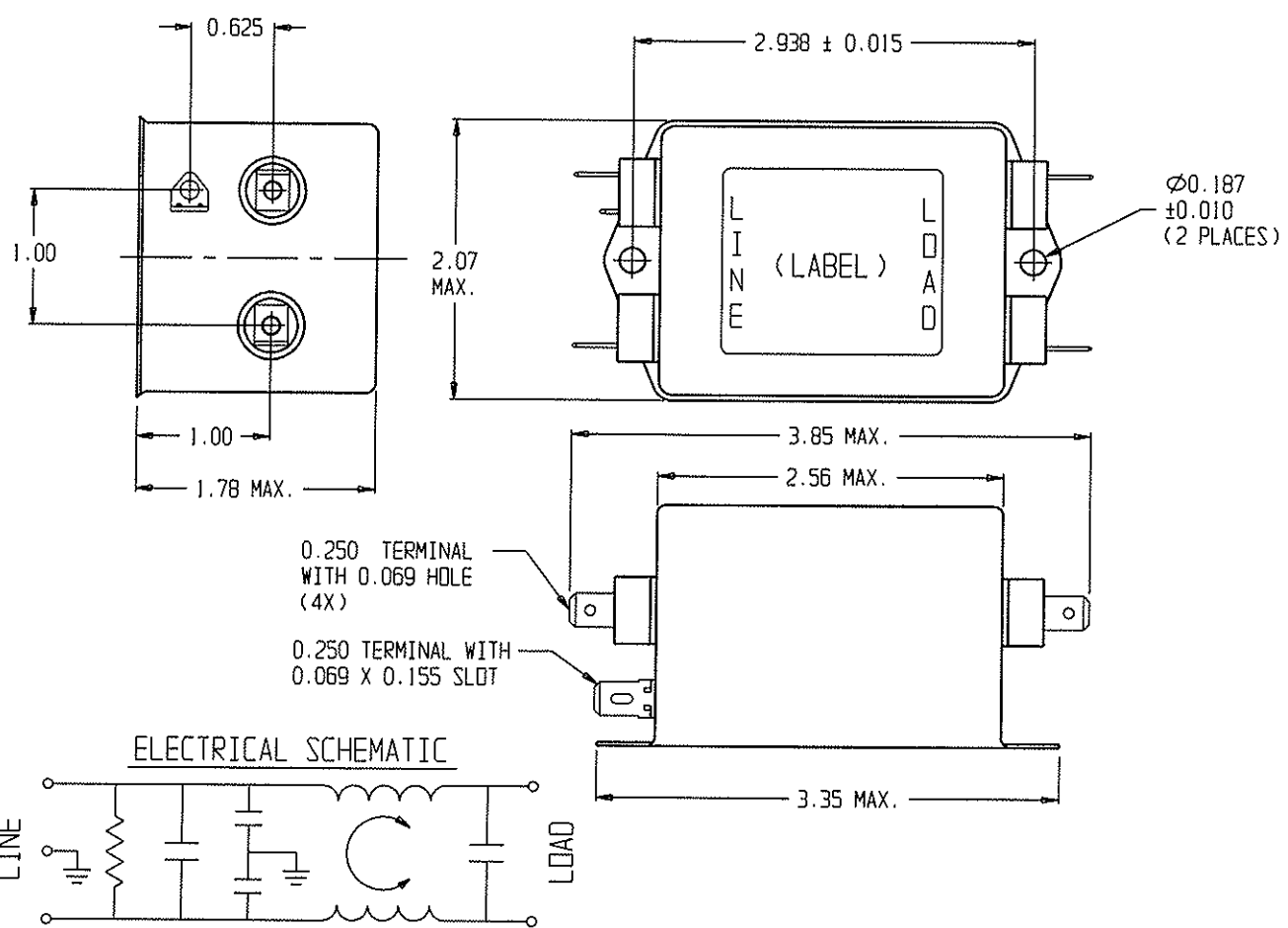
- INDUCTANCE: 4.97 mH NOMINAL
- CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: 0.0044 μF ±20%  
 LINE TO LINE: 0.741 μF ±20%
- DISCHARGE RESISTOR: 1.0MΩ
- L/G AND L/L I.R. NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

**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.



0.250 TERMINAL WITH 0.069 HOLE (4X)

0.250 TERMINAL WITH 0.069 X 0.155 SLOT

**ELECTRICAL SCHEMATIC**

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., MUNDLEIGH 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		

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