

**3VQ1**

**SAFETY ORGANIZATION(S):**

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  
CSA CERTIFIED  
VDE APPROVED

UL 1283  
CSA 22.2, NO.0,0.4,8  
VDE 565-3

**OPERATING SPECIFICATIONS:**

LINE VOLTAGE/CURRENT: 3 AMP, 120/250 VAC  
2 AMP./40°C, 250 VAC  
LINE FREQUENCY: 50-60Hz

MAX. LEAKAGE CURRENT, EACH:  
LINE TO GROUND: 1.0 mA AT 120V 60Hz  
1.25 mA at 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 RATED CURRENT FOR 8 SECONDS

**TEST SPECIFICATIONS:**

INDUCTANCE: 32.18 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1 KHz, 0.25VAC MAX., 25°C±1°C)  
LINE TO GROUND: .02 µF ±20%  
LINE TO LINE: .94 µF ±20%  
DISCHARGE RESISTOR:

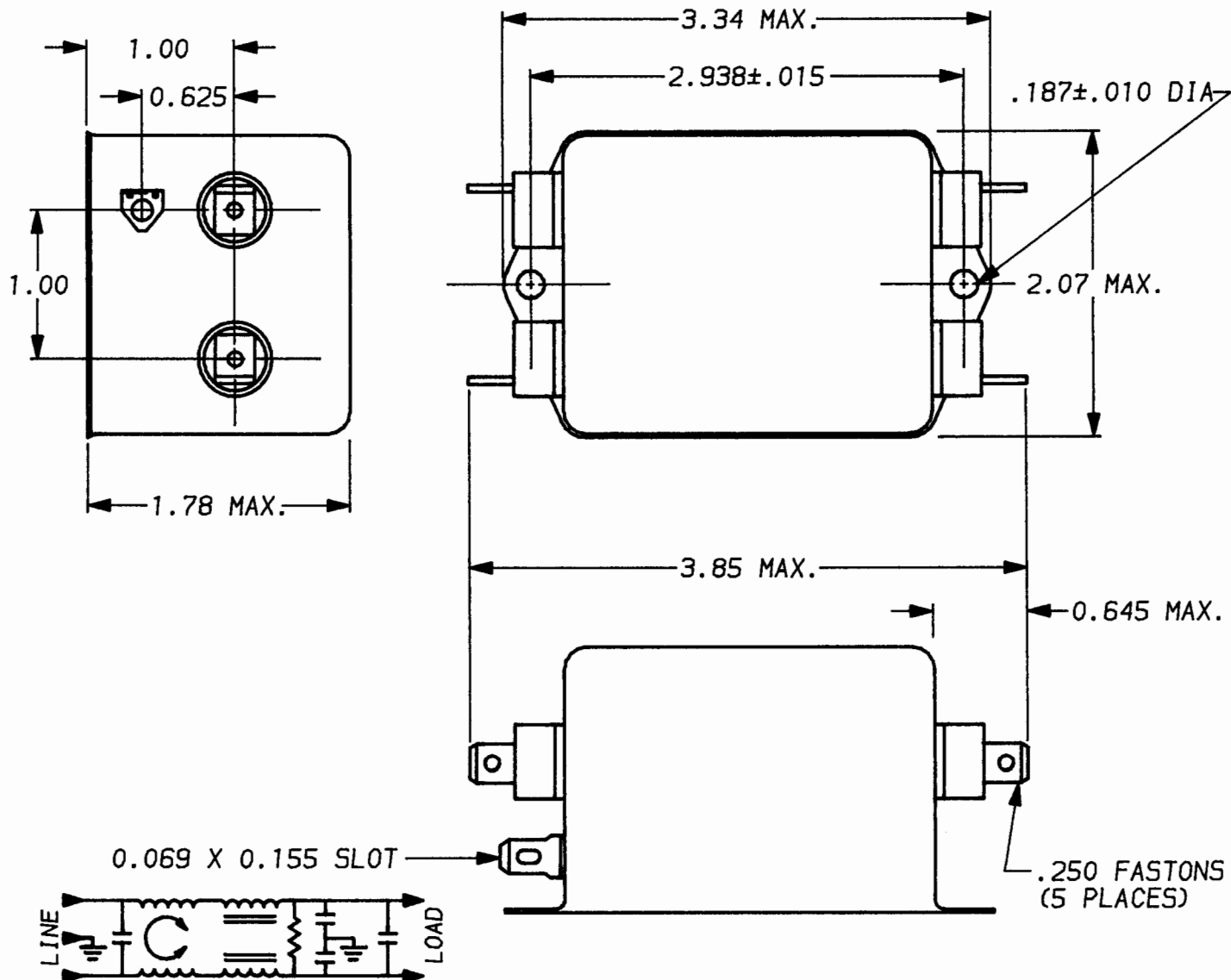
LINE/GROUND AND LINE/LINE: 6000Ω (MIN) AT 100VDC  
INSULATION RESISTANCE: 20°C AND 50% RH

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

LINES 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.



50Ω - 50Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.01	.015	.02	.05	.15	.5	1	2	5	10	20	30
COMMON dB	22	25	28	37	50	56	56	59	58	58	58	56
DIFF. dB	1	2	18	42	68	75	75	72	65	65	65	65

UNLESS OTHERWISE SPECIFIED, TOLERANCE TO BE ±.025  
MATERIAL & FINISH: AS SUPPLIED  
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**corcom**  
LIBERTYVILLE, IL 60048  
**POWER LINE FILTER**  
DATE: 9-29-93 CATALOG NO.  
APPRVD: JAM  
**3VQ1**  
CAD NO. 3VQ1.08

# Mouser Electronics

Authorized Distributor

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