

20VR1

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: 20 AMP, 120/250 VAC  
16 AMP./40°C, 250 VAC  
LINE FREQUENCY: 50-60Hz

MAX. LEAKAGE CURRENT, EACH: .5 mA AT 120V 60Hz  
LINE TO GROUND: .83 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: .88 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1 KHz, 0.25VAC MAX., 25°C±1°C)  
LINE TO GROUND: .011  $\mu$ F ±20%  
LINE TO LINE: .303  $\mu$ F ±20%  
DISCHARGE RESISTOR: 680K $\Omega$

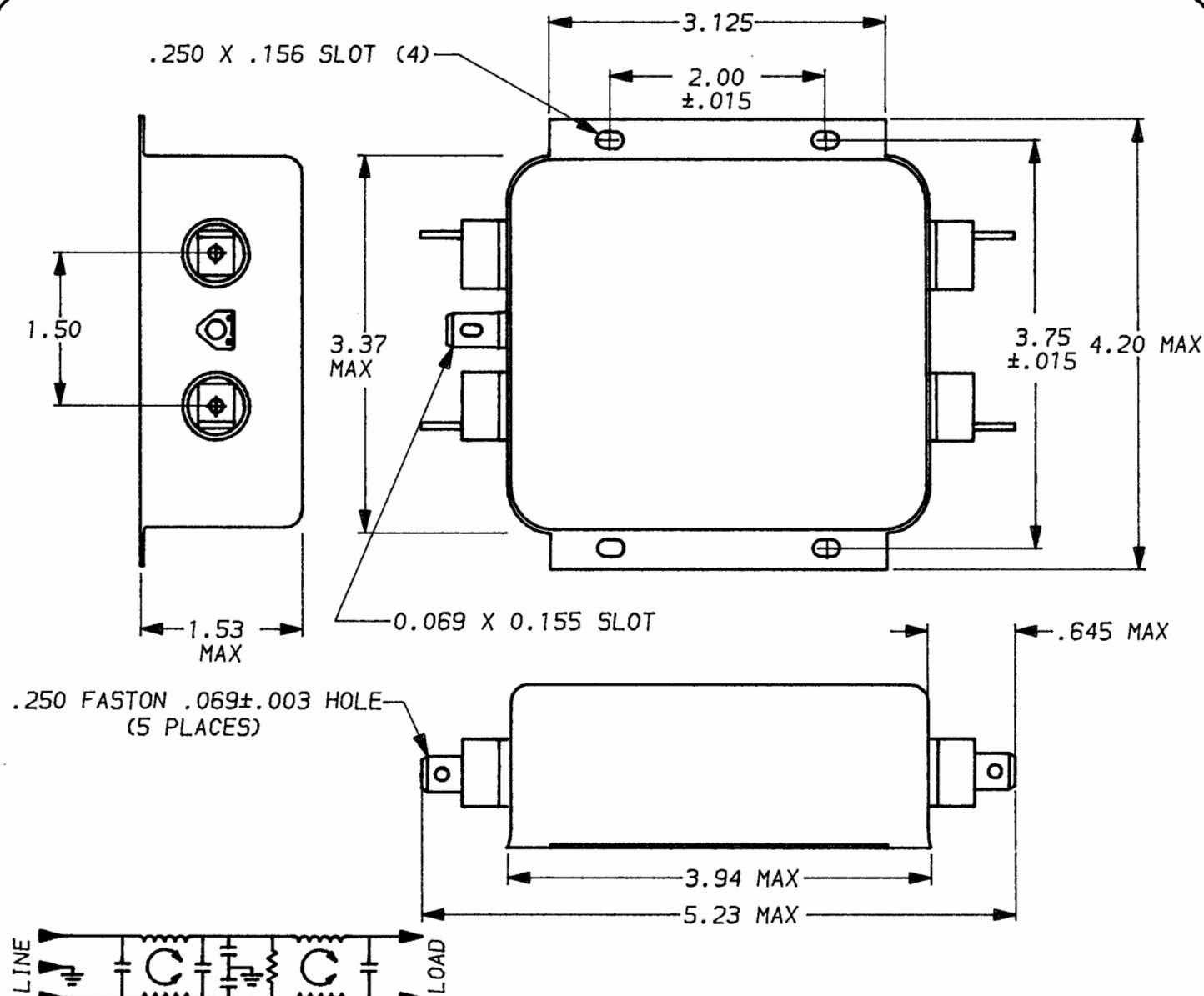
LINE/GROUND AND LINE/LINE: 6000M $\Omega$  (MIN) AT 100VDC  
INSULATION RESISTANCE: 20°C AND 50% RH

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.

50n - 50n (MINIMUM) INSERTION LOSS

| FREQUENCY<br>MHz | .15 | .3 | .5 | 1  | 2  | 5  | 10 | 20 | 30 | / | / | / |
|------------------|-----|----|----|----|----|----|----|----|----|---|---|---|
| COMMON<br>dB     | 11  | 33 | 50 | 65 | 65 | 65 | 65 | 62 | 60 | / | / | / |
| DIFF.<br>dB      | 3   | 3  | 15 | 65 | 65 | 65 | 60 | 52 | 52 | / | / | / |

UNLESS OTHERWISE SPECIFIED,  
TOLERANCE TO BE ±.025

MATERIAL & FINISH: AS SUPPLIED

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**corcom**  
LIBERTYVILLE, IL 60048

POWER LINE FILTER

DATE: 9-15-93

CATALOG NO.

APPROV. T.A.M.

20VR1

CAD NO.

20VR1.07