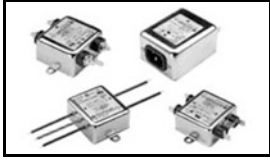


## 1-6609028-7 Product Details

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**1-6609028-7**  
(20VK1)

TE Internal Number: 1-6609028-7

 **Active**

 [View 3D PDF](#)

### EMI/RFI Filters and Accessories

 **Always EU RoHS/ELV Compliant**  
(Statement of Compliance)

#### Product Highlights:

- Filter - EMI/RFI
- Filter Type = Power Line
- K (20-40 Amp) Series
- General Purpose Application
- Mount Style = Flanged

[View all Features](#)

### Quick Links

- ▶ [Pricing & Availability](#)
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- ▶ [Product Feature Selector](#)
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### Documentation & Additional Information

#### Product Drawings:

- [CUSTOMER DRAWING 20VK1](#) (PDF, English)

#### Catalog Pages/Data Sheets:

- [1-1654250-1\\_CORCOM\\_EMI\\_RFI\\_QRG](#) (PDF, English)
- [1654001\\_CORCOM\\_PRODUCT\\_GUIDE\\_K\\_SERIES](#) (PDF, English)

#### Product Specifications:

- None Available

#### Application Specifications:

- None Available

#### Instruction Sheets:

- None Available

#### CAD Files: (CAD Format & Compression Information)

- [2D Drawing](#) (DXF, Version B)
- [3D Model](#) (IGES, Version B)
- [3D Model](#) (STEP, Version B)

[List all Documents](#)

#### Additional Information:

- [Product Line Information](#)

#### Additional Product Images:

- [Insertion Loss/Specifications](#)

#### Related Products:

- [Tooling](#)

### Product Features (Please use the Product Drawing for all design activity)

#### Product Type Features:

- [Product Type](#) = Filter - EMI/RFI
- [Filter Type](#) = Power Line
- [Series](#) = K (20-40 Amp)
- Ground Choke Option = Without
- [Filtered](#) = Yes
- [Ground Option](#) = None

#### Electrical Characteristics:

- [Current Rating \(A\)](#) = 20
- [Voltage ≤ \(VAC\)](#) = 250
- Leakage Current (Line-to-Ground) Max. @ 250 VAC 50 Hz (mA) = 0.7
- Leakage Current (Line-to-Ground) Max. @ 120 VAC 60 Hz (mA) = 0.4

#### Termination Features:

- [Terminal Input - Output Combination](#) = 1/4" Faston

#### Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant
- Approved Standards = UL Recognized, CSA Certified, VDE Approved

#### Conditions for Usage:

- Facility Installation = No
- Need Min Size With IEC Connector = No
- Need Optional Switch, Fusing, Or Voltage Selector = No

#### Operation/Application:

- [Application](#) = General Purpose

- 1/4" Faston

**Body Features:**

- [Mount Style](#) = Flanged

**Other:**

- Brand = Corcom

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**Keep Me Informed**



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

OPERATING SPECIFICATIONS:

LINE VOLTAGE/CURRENT:

- 20 AMP., 120/250 VAC
- 16 AMP./40°C, 250 VAC
- 50-60Hz
- 30°C

LINE FREQUENCY:

MAX. CASE RISE @ RATED CURRENT:

MAX. LEAKAGE CURRENT, EACH

LINE TO GROUND

OPERATING AMBIENT TEMP. RANGE:

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:

.44 mH NOMINAL

CAPACITANCE: (MEASURED @ 1 KHz, 0.25 VAC MAX., 25°C ±1°C)

LINE TO GROUND:

.011µF ±20%

LINE TO LINE:

.203µF ±20%

DISCHARGE RESISTOR

1.5MΩ

LINE/GROUND AND LINE/LINE

6000 MΩ (MIN) AT 100 VDC

INSULATION RESISTANCE

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.

50Ω - 50dB (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.15	.4	.5	1	2	5	10	20	30
COMMON dB	9	22	25	34	39	44	47	50	51
DIFF. dB	5	5	20	40	55	50	40	30	30

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TOLERANCE EXCEPT AS NOTED

DECIMAL: .XXX .XX .X ANGLES ± 1°  
ENGLISH: ±.025  
METRIC: ±

MATERIAL:

AS SUPPLIED

FINISH:

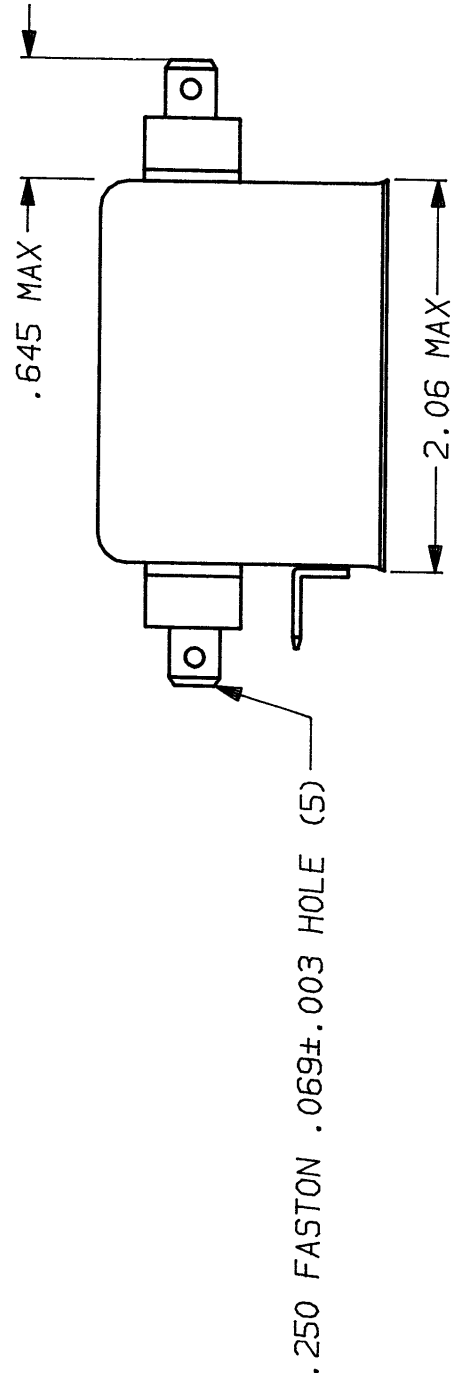
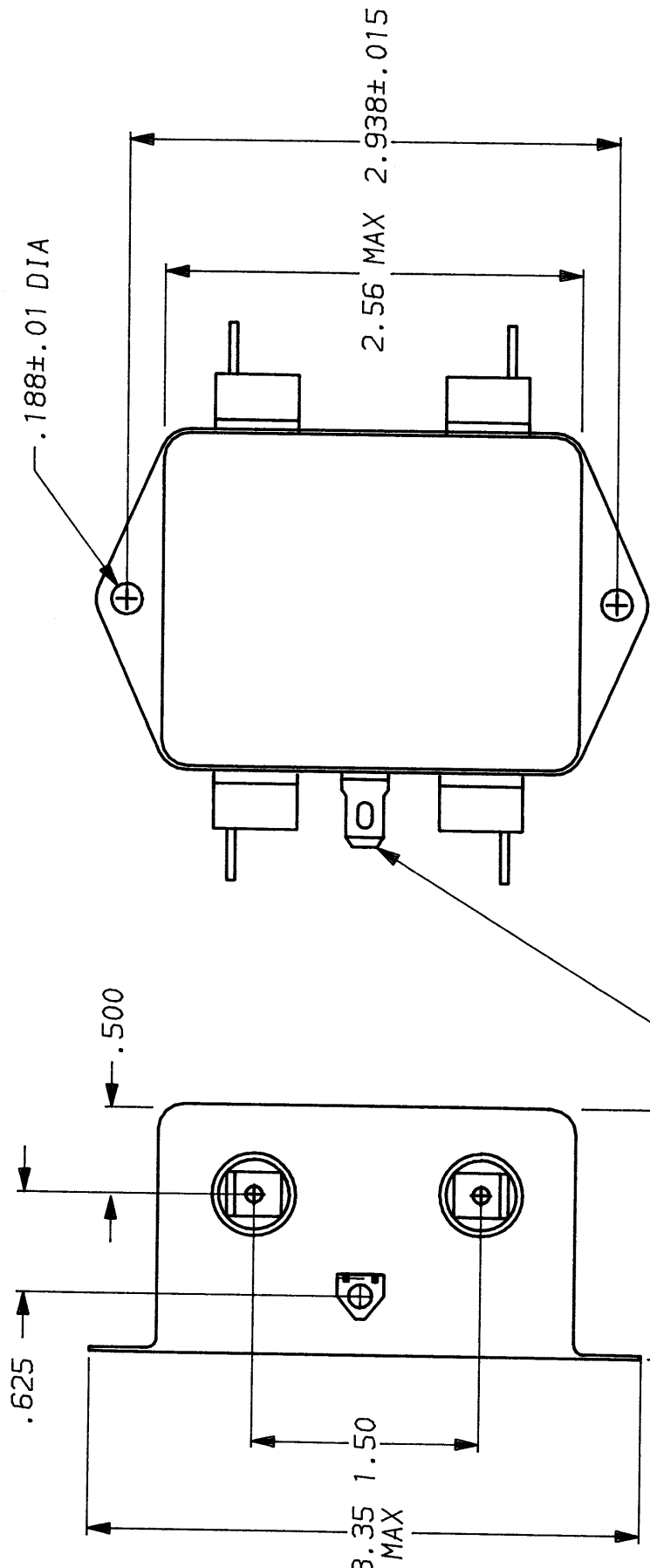
AS SUPPLIED



**corcom**  
LIBERTYVILLE, IL 60048

POWER LINE FILTER

SCALE	DATE	DRG. NO.	REV.
NTS	7-31-90	20VK1	06
DRW. BY	ORIGINATOR		
CFW	CFW		



.250 FASTON .069±.003 HOLE (5)

