

## 1-6609021-3 Product Details



**1-6609021-3**  
(20VB6)

TE Internal Number: 1-6609021-3

 Active

### EMI/RFI Filters and Accessories

 Always EU RoHS/ELV Compliant (Statement of Compliance)

#### Product Highlights:

- Filter - EMI/RFI
- Filter Type = Power Line
- B (1-30 Amp) Series
- General Purpose Application
- Mount Style = Flanged

### Documentation & Additional Information

#### Product Drawings:

- [CUSTOMER DRAWING 20VB6](#) (PDF, English)

#### Catalog Pages/Data Sheets:

- [1-1654250-1\\_CORCOM\\_EMI\\_RFI\\_QRG](#) (PDF, English)
- [1654001\\_Corcom\\_Product\\_Guide\\_B\\_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)

#### 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](#) = B (1-30 Amp)
- [Filtered](#) = Yes

#### 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](#) = Stud - Stud

#### Body Features:

- [Mount Style](#) = Flanged

#### 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

#### Other:

- Brand = Corcom

## 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  
CSA CERTIFIED: CSA 22.2, # 8  
VDE APPROVED: EN 133200

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 20 AMP/40°C, 120/250VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 0.40mA @ 120V, 60Hz  
0.70mA @ 250V, 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT,  $I_r$ .

IN AN AMBIENT,  $T_0$ , HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT,  $I_0$ , IS AS FOLLOWS:

$$I_0 = I_r \sqrt{\frac{100 - T_0}{60}}$$

## RELIABILITY SPECIFICATIONS:

STORAGE TEMPERATURE: -40°C TO +85°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES  $I_r$  FOR 8 SECONDS

## TEST SPECIFICATIONS:

INDUCTANCE: 0.44mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.0089µF ±20%  
LINE TO LINE: 0.012µF ±20%  
DISCHARGE RESISTOR: 1.5MΩ  
L/G AND L/L I.R.: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

## RECOMMENDED RECEIVING INSPECTION HIPOT:

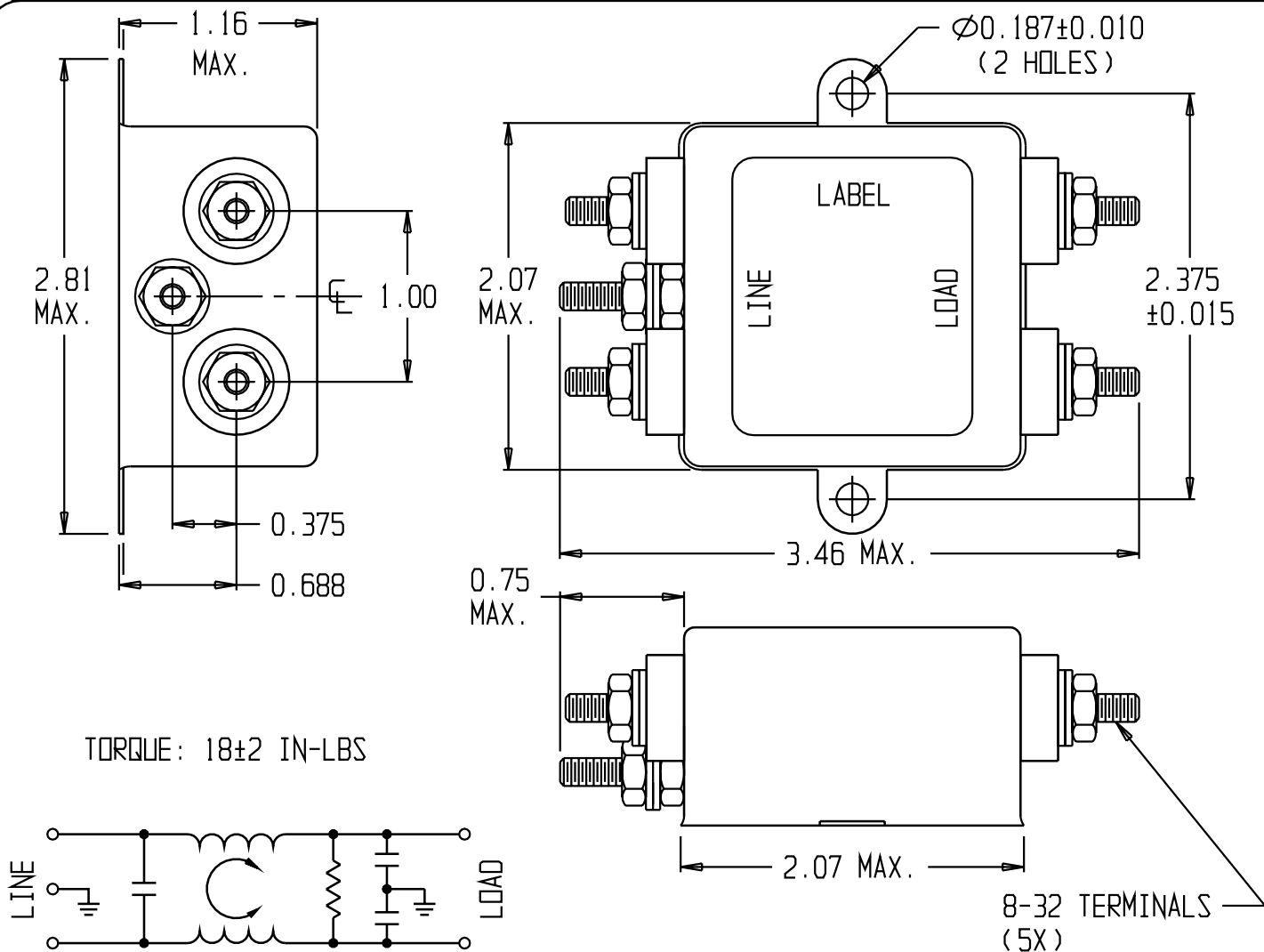
LINE TO GROUND: 1500VAC 2250VDC FOR 1 MINUTE  
LINE TO LINE: 1450VDC FOR 1 MINUTE

## FILTER APPROVAL:

THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

CATALOG # 20VB6

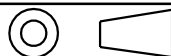
ECO #	APPRVD.	DATE
	KAW	30NOV06



## 50Ω- 50Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	0.15	0.5	1.0	2.0	5.0	10	20	30			
COMMON dB	11	26	37	44	47	50	50	48			
DIFF. dB											

THIRD ANGLE  
PROJECTION



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

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## CUSTOMER DRAWING 20VB6

TYCO: 1-6609021-3

SCALE:	DATE:	CATALOG NO.	REV.
NTS	12SEP89	20VB6	B
DRY BY: JF	ORIG: CW		