

## 6609116-4 Product Details



**6609116-4**  
(10EHG1-2)

TE Internal Number: 6609116-4



### EMI/RFI Filters and Accessories

 Always EU RoHS/ELV Compliant (Statement of Compliance)

#### Product Highlights:

- Filter - EMI/RFI
- Filter Type = Power Line
- HG (1-10 Amp) Series
- General Purpose Application, High Performance Application
- Mount Style = Flanged

### Documentation & Additional Information

#### Product Drawings:

- [Customer Drawing 10EHG1-2](#) (PDF, English)

#### Catalog Pages/Data Sheets:

- [1-1654250-1\\_CORCOM\\_EMI\\_RFI\\_QRG](#) (PDF, English)
- [1654001\\_CORCOM\\_PRODUCT\\_GUIDE\\_GG\\_HG](#) (PDF, English)
- [4-1773454-7\\_CORCOM\\_GG\\_SERIES\\_10A\\_&\\_WIRE\\_LEADED\\_OPTIONS](#) (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](#) = HG (1-10 Amp)
- [Filtered](#) = Yes

#### Electrical Characteristics:

- [Current Rating \(A\)](#) = 10
- [Voltage ≤ \(VAC\)](#) = 250
- [Leakage Current \(Line-to-Ground\) Max. @ 120 VAC 60 Hz \(μA\)](#) = 2
- [Leakage Current \(Line-to-Ground\) Max. @ 250 VAC 50 Hz \(μA\)](#) = 5

#### Termination Features:

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

#### Body Features:

- [Mount Style](#) = Flanged

#### Configuration Features:

- [Fuse Options](#) = Dual

#### Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Not reviewed for lead free solder 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, High Performance

#### 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 60939-2

**OPERATING SPECIFICATIONS**

LINE CURRENT/VOLTAGE: 10 AMP/40°C, 120/250VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
 EACH LINE TO GROUND: 2.0µA @ 120V, 60Hz  
 5.0µA @ 250V, 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT, I<sub>r</sub>.

IN AN AMBIENT, T<sub>0</sub>, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I<sub>0</sub>, IS AS FOLLOWS:

$$I_0 = I_r \sqrt{\frac{85 - T_0}{45}}$$

**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: 0.27mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: N/A µF ±20%  
 LINE TO LINE: 0.10µF ±20%  
 DISCHARGE RESISTOR: 1.5MΩ  
 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: 1500VAC OR 2250VDC FOR 1 MINUTE  
 LINE TO LINE: 1450VDC FOR 1 MINUTE

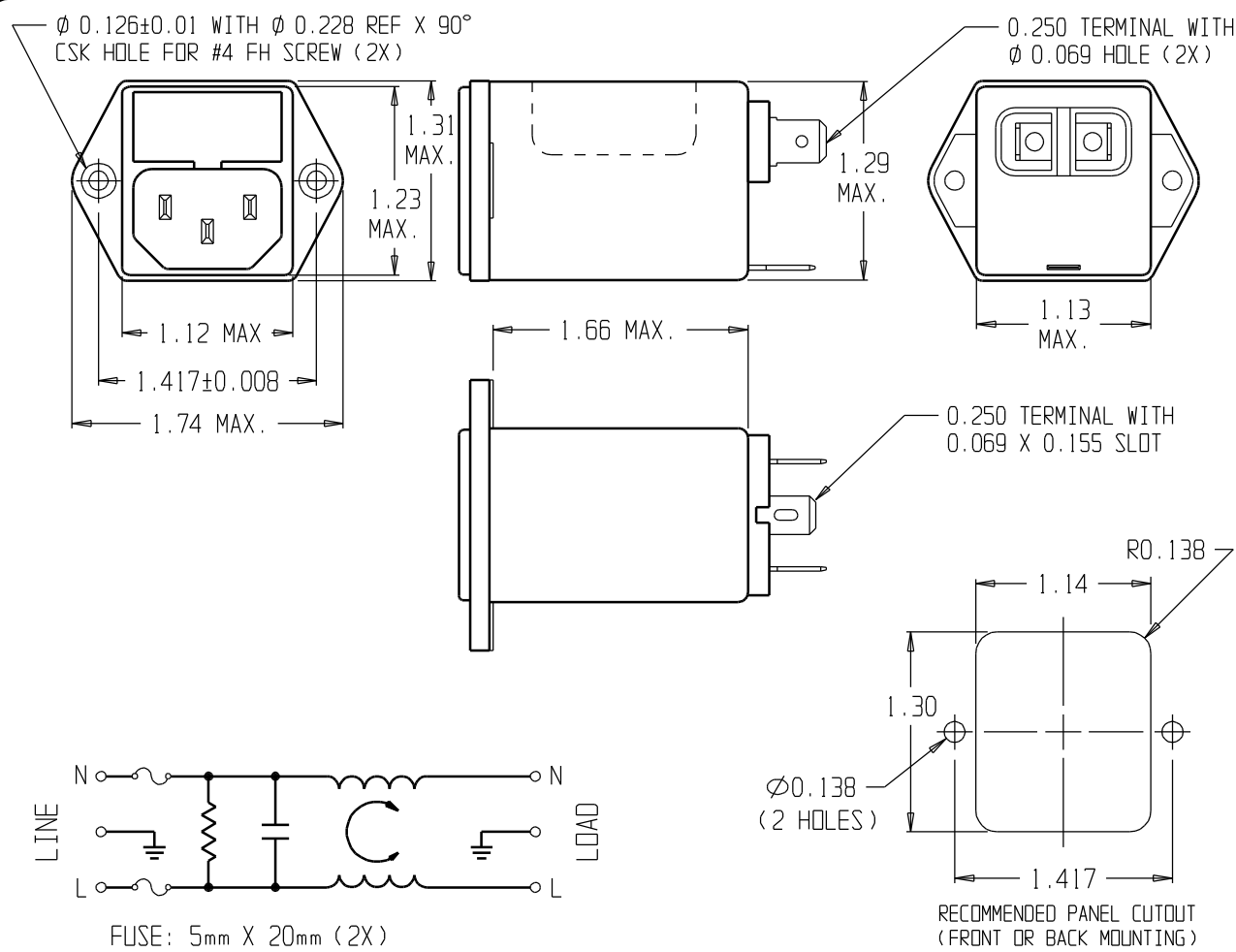
**FILTER APPROVAL:**

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

**CUSTOMER DRAWING**

**CATALOG #10EHG1-2**

ECN #	APPRVD.	DATE
08-010595	ELC	21NOV08



**50Ω - 50Ω (MINIMUM) INSERTION LOSS**

FREQUENCY MHz	0.10	0.15	0.5	1.0	3.0	5.0	10	30
COMMON dB	1	3	5	6	7	8	9	10
DIFF. dB	3	8	16	22	32	37	43	28

THIRD ANGLE PROJECTION

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

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**CUSTOMER DRAWING 10EHG1-2**

TYCO ELECTRONICS P/N 0-6609116-4

SCALE: NTS	DATE: 04MAR08	CATALOG NO. 10EHG1-2	REV. 1
DRW. BY: JF	DTG: PJD		