

3-1609037-1 Product Details



3-1609037-1
(15EHZ1)

TE Internal Number: 3-1609037-1

 Active

EMI/RFI Filters and Accessories

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Filter - EMI/RFI
- Filter Type = Power Line
- HZ Series
- Medical Application
- Mount Style = Flanged

Documentation & Additional Information

Product Drawings:

- [CUSTOMER DRAWING 15EHZ1](#) (PDF, English)

Catalog Pages/Data Sheets:

- [1654001_CORCOM_PRODUCT_GUIDE_HZ_SERIES](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files:

- None Available

Additional Information:

- [Product Line Information](#)

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](#) = HZ
- [Ground Choke Option](#) = Without
- [Filtered](#) = Yes
- [Ground Option](#) = None

Electrical Characteristics:

- [Current Rating \(A\)](#) = 15
- [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
- [Terminal Style Output](#) = Straight

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](#) = VDE Approved, UL Recognized, CSA Certified

Conditions for Usage:

- [Facility Installation](#) = No
- [Need Min Size With IEC Connector](#) = No
- [Need Optional Switch, Fusing, Or Voltage Selector](#) = No

Operation/Application:

- [Application](#) = Medical

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 C22.2 No. 8
 VDE APPROVED: EN 60939-2

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 15 AMP, 120/250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,
 EACH LINE TO GROUND: 2µA @ 120V 60Hz
 5µA @ 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 I_r FOR 8 SECONDS

TEST SPECIFICATIONS:

INDUCTANCE: 5.04 mH NOMINAL
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)

LINE TO LINE: 0.74 µF±20%
 DISCHARGE RESISTOR: 470K Ω
 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: 1500 VAC FOR 1 MINUTE
 LINE TO LINE: 1450 VDC FOR 1 MINUTE

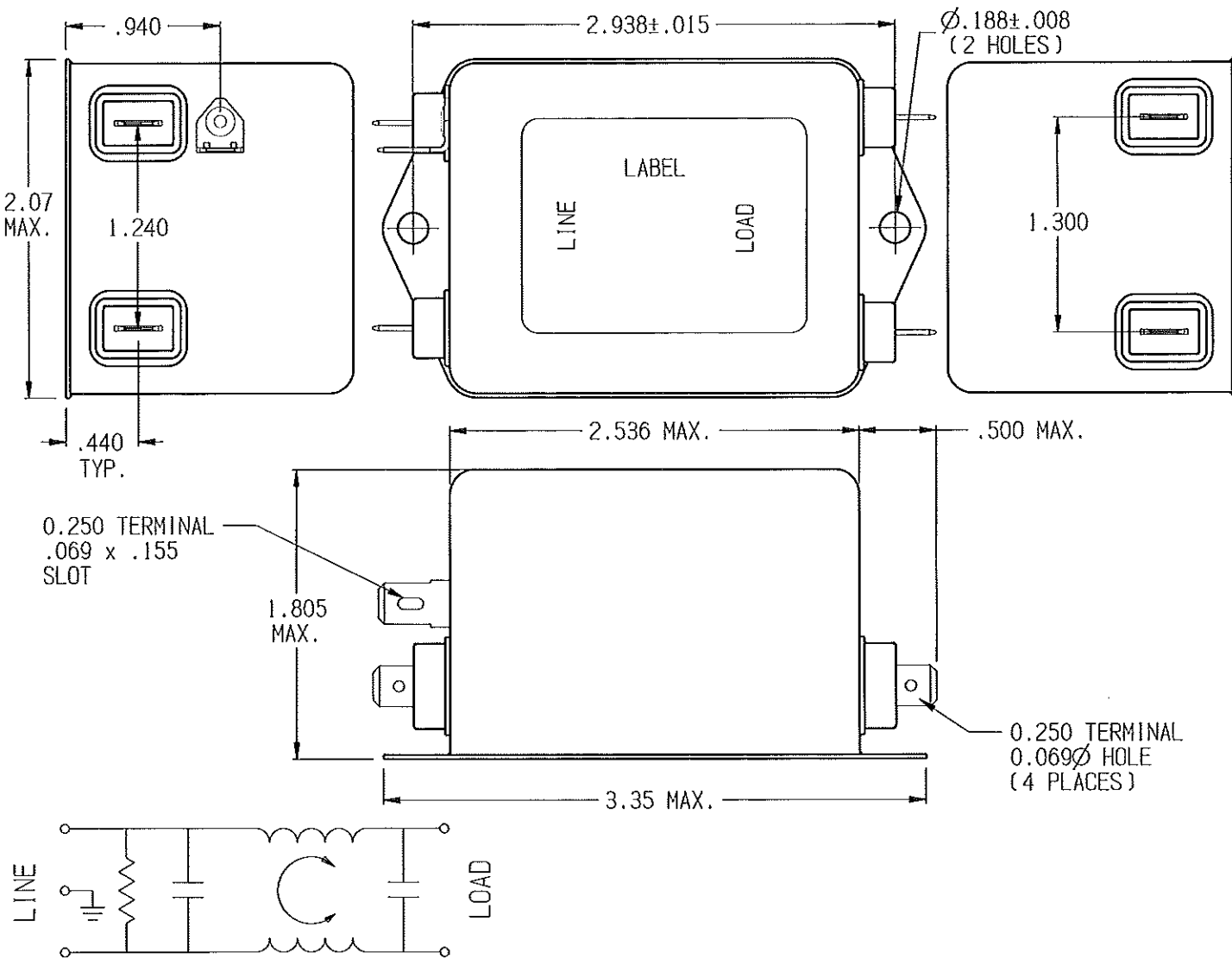
FILTER APPROVAL:

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

CUSTOMER DRAWING

CATALOG # 15EHZ1

ECN#	APPRVD	DATE
10-023669	PJO	B



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.01	.05	.1	.15	.5	1.0	2.0	5.0	10	20	30	/
COMMON dB	7	21	27	30	43	37	28	24	17	12	12	/
DIFF. dB	/	/	7	15	51	77	80	80	74	66	48	/

SHEET SIZE: **A** THIRD ANGLE PROJECTION: **⊲**

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PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES
 UNLESS OTHERWISE SPECIFIED
 TOLERANCE TO BE ±0.025
 MATERIAL & FINISH: AS SUPPLIED

NOTES:

TE TE Connectivity

POWER LINE FILTER

TYCO ELECTRONICS PART NO. 3-1609037-1

SCALE: 1:1	DATE: 31AUG10	DRAWING NUMBER: 15EHZ1	REV. B
DRW. BY: LJO	DRG: PJO		

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