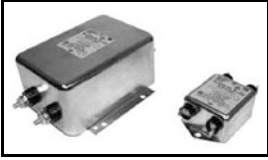


20EMC1 Product Details

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20EMC1

TE Internal Number: 1-6609037-5

 Active

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EMI/RFI Filters and Accessories

 Always EU RoHS/ELV Compliant
(Statement of Compliance)

Product Highlights:

- Filter - EMI/RFI
- Filter Type = Power Line
- EMC (3-30 Amp) Series
- Dual Stage Noise Reduction to meet CISPR and FCC Application
- Mount Style = Flanged

[View all Features](#)

Quick Links

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Documentation & Additional Information

Product Drawings:

- [CUSTOMER DRAWING 20EMC1](#) (PDF, English)

Catalog Pages/Data Sheets:

- [1-1654250-1_CORCOM_EMI_RFI_QRG](#) (PDF, English)
- [1654001_CORCOM_PRODUCT_GUIDE EMC_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](#) = EMC (3-30 Amp)
- [Filtered](#) = Yes

Electrical Characteristics:

- [Current Rating \(A\)](#) = 20
- [Voltage ≤ \(VAC\)](#) = 250
- [Leakage Current \(Line-to-Ground\) Max. @ 250 VAC 50 Hz \(mA\)](#) = 1.52
- [Leakage Current \(Line-to-Ground\) Max. @ 120 VAC 60 Hz \(mA\)](#) = 0.73

Termination Features:

- [Terminal Input - Output Combination](#) = 1/4" Faston - 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](#) = CSA Certified, VDE Approved, UL Recognized

Conditions for Usage:

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

Operation/Application:

Body Features:

- [Mount Style](#) = Flanged

- [Application](#) = Dual Stage Noise Reduction to meet CISPR and FCC

Other:

- Brand = Corcom

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Keep Me Informed

CATALOG # 20EMC1

ECC #	APPRVD.	DATE
	KAW	3DEC06

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: 0.73mA @ 120V, 60Hz
1.27mA @ 250V, 50Hz

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

IN AN AMBIENT, T₀, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I₀, 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:

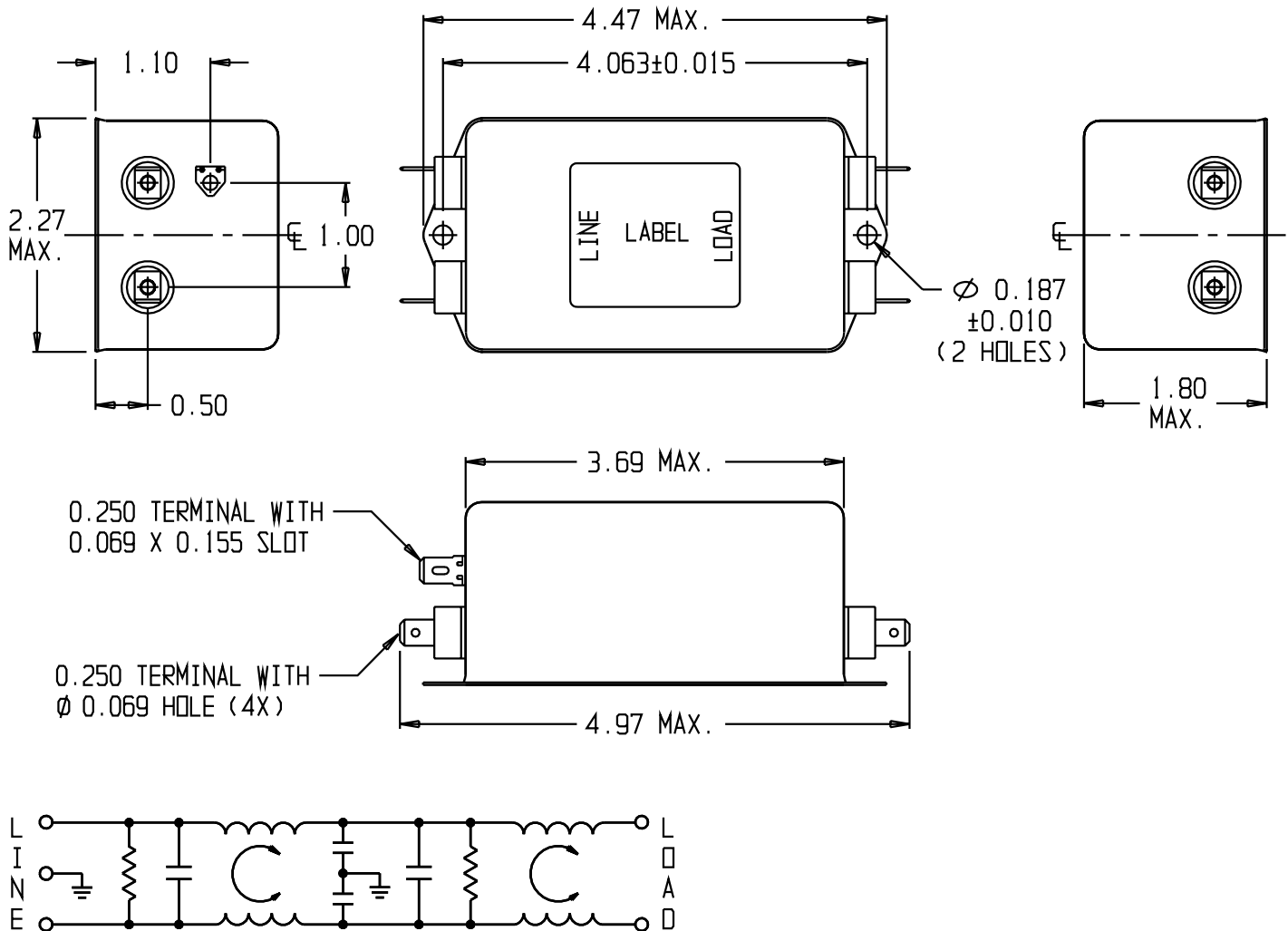
INDUCTANCE: 0.84mH NOMINAL
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
LINE TO GROUND: 0.02µF ±20%
LINE TO LINE: 4.405µF ±20%
DISCHARGE RESISTOR: 94K Ω
L/G AND L/L I.R.:
NO DISCHARGE RESISTOR: 6000M Ω (MIN.) @ 100VDC, 20°C AND 50% RH

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.



50Ω - 50Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	0.01	0.05	0.07	0.11	0.15	1.0	2.0	10	20	30
COMMON dB	1	2	2	11	21	58	57	63	55	52
DIFF. dB	11	17	19	15	37	67	62	36	32	30

THIRD ANGLE PROJECTION

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

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tyco Electronics **corcom**
620 S. BUTTERFIELD ROAD MUNDLEIGH IL 60060

CUSTOMER DRAWING 20EMC1

TYCO: 1-6609037-5	SCALE:	DATE: 4DEC03	CATALOG NO. 20EMC1	REV. B
DRW. BY: JF	DRG: KAW			