

6609074-7 Product Details



6609074-7
(100DCF6)

TE Internal Number: 6609074-7

 Active

EMI/RFI Filters and Accessories

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Filter - EMI/RFI
- Filter Type = DC
- DC (15-125 Amp) Series
- General Purpose Application
- Mount Style = Flanged

Documentation & Additional Information

Product Drawings:

- [CUSTOMER DRAWING 100DCF6](#) (PDF, English)

Catalog Pages/Data Sheets:

- [1-1654250-1_CORCOM_EMI_RFI_QRG](#) (PDF, English)
- [1654001_Corcom_Product_Guide_DC_Series](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files:

- None Available

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](#) = DC
- [Series](#) = DC (15-125 Amp)
- [Filtered](#) = Yes
- [Option](#) = None

Electrical Characteristics:

- [Current Rating \(A\)](#) = 100
- [Rated Voltage, Maximum \(VDC\)](#) = 80

Termination Features:

- [Terminal Input - Output Combination](#) = Redundant Stud - Redundant 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

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
 TUV APPROVED: EN60950

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 100 AMP/55°C, 80 VDC

LINE FREQUENCY: DC

MAXIMUM LEAKAGE CURRENT,
 EACH LINE TO GROUND:

N/A mA @ 120V 60Hz
 N/A mA @ 250V 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +55°C @ RATED CURRENT, I_r .

IN AN AMBIENT, T_a , HIGHER THAN 55°C, THE MAXIMUM OPERATING CURRENT, I_o , IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{30}}$$

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: 0.340mH NOMINAL
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
 LINE TO GROUND: 0.094 μ F ±20%
 LINE TO LINE: 4.424 μ F ±20%
 DISCHARGE RESISTOR: 0.165M Ω
 L/G AND L/L I.R.
 NO DISCHARGE RESISTOR: 6000M Ω (MIN.) @ 100VDC, 20°C AND 50% RH

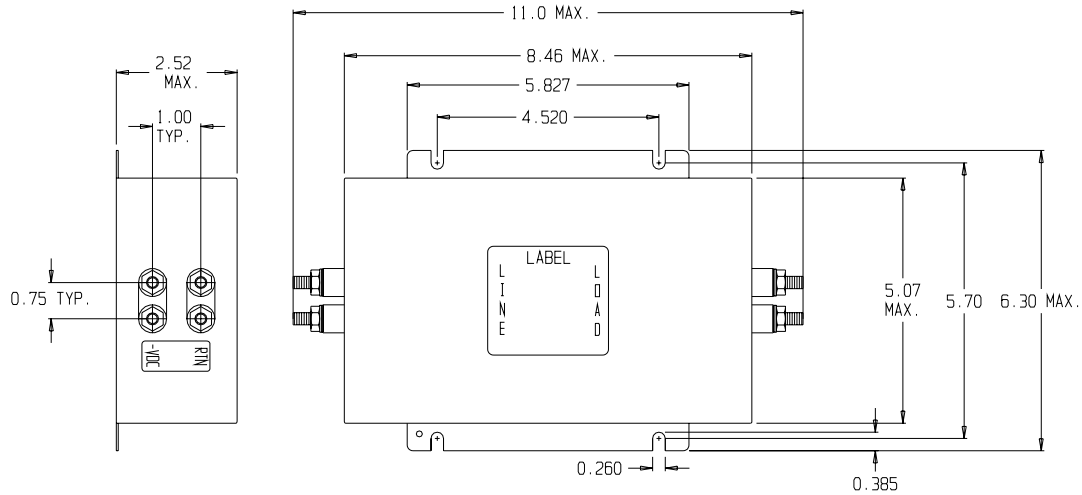
RECOMMENDED RECEIVING INSPECTION HIPOT:

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

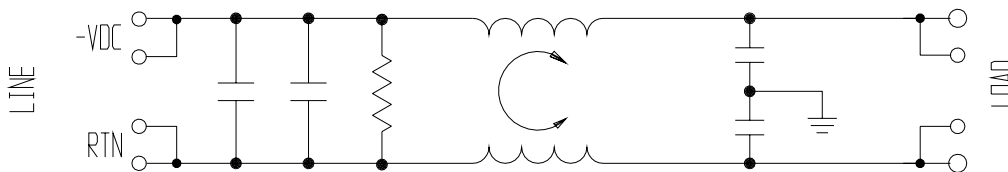
FILTER APPROVAL:

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

CATALOG # 100DCF6		
EC#	APPRVD.	DDMMYY
0631-0093-03		11MAR03



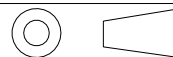
1/4-20 (8)



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.01	.05	0.1	.15	0.5	1	3	5	10	30
COMMON dB			10	18	38	39	53	50	35	21
DIFF. dB	14	29	35	39	33	30	53	53	41	30

THIRD ANGLE
 PROJECTION



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

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POWER LINE FILTER

CAD FILE: G:\CD\100DCF603	TYCO # 0-1609074-7	REV.
SCALE: NTS	DATE: 10-30-00	CATALOG NO.
DRW. BY: PJD	DRIG: PJD	100DCF6
		3