



**ADVANCE COMPONENTS
AND INSTRUMENTS PVT. LTD.**

Manufacturers of PLASTIC FILM CAPACITORS

Registered Office & Factory :
3A-3A/1, Belavadi Indl.Area, Mysore - 570 018. INDIA



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Website : www.advance-capacitors.com

GSTIN : 29AABCA1720D1ZA

ADVANCE EMI/RFI FILTERS

INTRODUCTION:

Rapid changes of current cause generation of Radio Frequency Interference (RFI) noise. This may be due to Electronic switching such as Oscillators, SMPS, Triac Switches or Electromechanical switches such as commutators or Slip rings. Interference appearing across the line is called Differential Mode and the one appearing across the line to earth is called Common mode Interference. The RFI range covers the spectrum from 150KHz to 300MHz while the ElectroMagnetic Interference (EMI) covers from 10KHz to 10GHz.

APPLICATIONS :

RFI/EMI filters are used to reduce or to eliminate the unwanted RFI noise from entering or leaving the equipment. The suppression is carried out by connecting an inductance (High impedance to RF) in series or a capacitance (low impedance to RF) to ground. The ability of a filter to eliminate the noise is measured in terms of Insertion Loss (in dB) over a frequency spectrum. The RFI filters are used in Office Equipments, Communication Equipments, Instruments, Medical Instruments, SMPS, Computer peripherals, Thyristor Drives and Defence equipment

SELECTION

The major parameters to be considered during the selection of a filter are :

Rated Voltage, Rated Current, RF noise spectrum, Level of suppression, Grounding arrangement and the leakage current.

ADVANCE Product Range:

Advance product range covers the full spectrum of RFI and EMI upto 1GHz, for DC or AC power line Voltages, from 1A to 400A current range. Various mounting arrangements such as clamp, PCB type, Flange, Bottom stud and various terminal arrangements are available. Integral socket type filters are also available.



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General Specifications:

Rated Voltage : 200-250Vac 50/60Hz
Rated Current @25°C : As specified in chart (Page #3)
Related Standards : VDE0565-1,2,3, BS2135, UL1283
IEC384-14, IEC939-1,1 JSS53900

Routine Tests

Electrical : Coils: Inductance +50%-30% (VDE 0565-03)
Capacitance: Cx: ±20% (IEC 384-14 X2)
Capacitance: Cy: ±20% (IEC 384-14 Y)
Attenuation : (IL in dB) as specified in drawing
Leakage current : as specified in chart (Page #3)
Dielectric Strength : 2000Vac 50Hz for 1 minute (terminals to case)
1075Vdc for 1 minute (terminal to terminal)
Insulation Resistance : Between terminals shorted and case
Min.2000MΩ at 500Vdc

Type tests

Voltage drop : Less than 1.5Volts at full load
Temperature Rise : at full load, less than 60°C above 25°C
by resistance method

Environmental

Temperature Cycling : JSS50101-Test 20
Life : JSS50101-Test 13, 250 hours
Damp Heat : 45°C 95% RH 500 hours

All electrical parameters (including Insertion loss) to be checked after the completion of the test.
All parameters to be within the initial specifications.

Resistance to Chemicals : Unit covered with black Toner in a chamber at 45°C for
120 hours. Toner should not stick to the surface.



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Range of Filters

Type	Rating, in Amperes	Package Size in mm	Applications
Single Phase 250Vac Filters			
AF-110-6	6	38*55 Aluminium can	General purpose
AF-111-8	8	38*70 Aluminium can	Photocopiers
AF-111-10	10	38*70 Aluminium can	Photocopiers
AF-112-10	10	45*50 Aluminium can	Photocopiers
AF-205-1	1	17*25*42 PCB mounting Plastic box	Photocopiers
AF-210-3	3	17*29*44 PCB mounting Plastic box	General purpose
AF-211-6	6	47*43*75 PCB mounting plastic box	SMPS
AF-322-3	3	20*30*55 IEC socket	General purpose
AF-322-6	6	20*30*55 IEC socket	Medical equipments
AF-422-3	3	16*30*52 flat Aluminum can	Computer printer Weighing machines
AF-611-8	8	40*80*104 metal box	Photocopiers
AF-612-10	10	40*80*104 metal box	Power supplies
AF-612-15	15	40*80*104 metal box	Power supplies
AF-612-30	30	40*80*104 metal box	Power supplies
AF-612-40	40	40*80*104 metal box	Power supplies
AF-622-15	15	40*80*104 metal box	Power supplies
AF-6AP	6	double stage high loss 40*54*25 metal box	General purpose high loss
AF-15AP	15	40*54*25 metal box	General purpose
3 Phase 415 Vac filters			
AF-355-15	15	40*80*104 metal box	3 phase 415V
AF-355-30	30	40*80*104 metal box	3 phase 415V
AF-355-40	40	40*80*104 metal box	3 phase 415V



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