



## **ADVANCE COMPONENTS AND INSTRUMENTS PVT LTD**

(An ISO 9001 Company)

Manufacturers of PLASTIC FILM CAPACITORS

IN TECHNICAL COLLABORATION WITH GOULD ADVANCE LIMITED U.K.

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

**Telephone: (0821) – 2402307, 2402301 Fax: (0821) - 4282058**

**Website: [www.advance-capacitors.com](http://www.advance-capacitors.com)**

**Email: [info@advancecapacitors.com](mailto:info@advancecapacitors.com)**

### **ADVANCE Radio Frequency Interference (RFI) FILTERS**

#### **Introduction:**

Rapid changes of current causes 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 (DF) interference and the one appearing across the line to earth is called Common Mode (CF) interference. The RFI range covers the spectrum from 150KHz to 300MHz while the Electro Magnetic 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 Equipment, Communication Equipment, Medical Instruments, Petrol Pump Measuring Instruments, SMPS, Computer Peripherals, Thyristor Drives and Defense Equipments.

#### **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 arrangements and the leakage current.

#### **Advance Filters Range:**

We offer full spectrum of RFI & EMI up to 1GHz, for DC or AC power line voltage and 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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<b>ADVANCE RFI FILTER RANGE</b>			
<b>Single Phase 250Vac</b>			
<b>Type No.</b>	<b>Rating Amps</b>	<b>Dimensions (mm)</b>	<b>Applications</b>
AF-110-6	6	38mm dia x 55mm length Aluminium Can	General Purpose
AF-111-8	8	38mm dia x 70mm length Aluminium Can	Photo Copiers
AF-111-10	10	38mm dia x 70mm length Aluminium Can	Photo Copiers
AF-112-10	10	45mm dia x 50mm length Aluminium Can	Photo Copiers
AF-205-1	1	17mmx25mmx42mm PCB mounting Plastic box	Photo Copiers
AF-210-3	3	17mmx29mmx44mm PCB mounting Plastic box	General Purpose
AF-210-6	6	47mmx43mmx75mm PCB mounting Plastic box	SMPS
AF-322-3	3	20mmx30mmx55mm IEC Socket	General Purpose
AF-322-6	6	20mmx30mmx55mm IEC Socket	Medical Equipment
AF-422-3	3	16mmx30mmx52mm Flat Aluminum Can	Computer Printers & Weighing Scales
AF-611-8	8	40mmx80mmx104mm Metal Box	Photo Copiers
AF-612-10	10	40mmx80mmx104mm Metal Box	Power Supplies for Telecom
AF-612-15	15	40mmx80mmx104mm Metal Box	Power Supplies for Telecom
AF-612-30	30	40mmx80mmx104mm Metal Box	Power Supplies for Telecom
AF-612-40	40	40mmx80mmx104mm Metal Box	Power Supplies for Telecom
AF-622-15	15	40mmx80mmx104mm Metal Box, Double Stage High Loss	Power Supplies for Telecom
AF-6AP	6	40mmx54mmx25mm Metal Box	General Purpose High Loss
AF-15AP	15	40mmx54mmx25mm Metal Box	General Purpose
<b>3Phase 415Vac</b>			
AF-355-15	15	40mmx80mmx104mm Metal Box	3Phase Applications
AF-355-30	30	40mmx80mmx104mm Metal Box	3Phase Applications
AF-355-40	40	40mmx80mmx104mm Metal Box	3Phase Applications

**Note: High Rating filters also available on Request.**

**Email to [info@advance-capacitors.com](mailto:info@advance-capacitors.com)**

Related Standards: VDE0565-1,2,3, BIS2135, UL1283, IEC384-14, IEC939-1,2, JSS53900