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High Voltage DC Filter Capacitors



TYPE EC

The EC range of capacitors are similar in design to the ET range but are housed in a more robust container. They are manufactured using a mixed dielectric material that consists of polyester/polypropylene film and capacitor tissue. They are impregnated and filled with a mineral oil. The container is a Synthetic Resin Bonded Paper (SRBP) tube sealed at both ends with resin assuring a hermetic seal. The capacitors may be used in air, oil or SF6. They are terminated with M6 studs x 15mm long or tinned copper wire.

Note: The impregnant used is a non toxic highly purified and inhibited mineral oil.

APPLICATIONS

The EC range of capacitors are specifically designed for high voltage filters and can be successfully used in the following applications:

- High voltage smoothing
- Induction heating
- RT transmitter power supplies
- X-ray power supplies

TEMPERATURE RANGE

Temperature range is - 40°C to + 85°C. Derating is required for operation at higher temperatures.

TEMPERATURE COEFFICIENT

Capacitance will increase by 2% per 100°C temperature rise.

CAPACITANCE RANGE

0.001µF - 2µF. The tolerance is ± 10%. Other tolerance are available on request. Normal values measured at 1kHz.

VOLTAGE RANGE

1000VDC - 100kVDC

TEST VOLTAGE

Terminal/terminal (Vt/t)
 For DC rating < 20kV
 $Vt/t = 2.0 \times \text{rated voltage } 60s$
 For DC rating > 20kV
 $Vt/t = 1.5 \times \text{rated voltage } 60s$

PART NUMBER	µF	KILO-VOLTS	DIMENSIONS	
			L mm	D mm
EC100-104	0.1	10	115	65
EC100-254	0.25	10	140	75
EC100-504	0.5	10	205	95
EC200-503	0.05	20	180	65
EC200-104	0.1	20	230	65
EC200-254	0.25	20	280	75
EC200-504	0.5	20	360	95
EC300-253	0.025	30	245	65
EC300-503	0.05	30	320	65
EC300-104	0.1	30	395	65
EC300-254	0.25	30	510	75
EC400-253	0.025	40	305	65
EC400-503	0.05	40	410	65
EC400-104	0.01	40	345	95
EC400-124	0.12	40	440	95
EC500-103	0.01	50	270	65
EC500-253	0.025	50	335	65
EC500-503	0.05	50	430	75
EC500-104	0.1	50	430	95
EC600-502	0.005	60	310	65
EC600-103	0.01	60	310	75
EC600-253	0.025	60	390	75
EC600-503	0.05	60	500	75
EC600-104	0.1	60	615	95
EC800-502	0.005	80	400	65
EC800-103	0.01	80	400	75
EC800-253	0.025	80	500	95
EC800-503	0.05	80	650	95
EC1000-502	0.005	100	485	65
EC1000-103	0.01	100	485	75
EC1000-253	0.025	100	610	95
EC1200-502	0.005	120	425	75

Dimensions in Millimetres

