



Low ESR Metallized Polyester Film Capacitors

TYPE	DESIGN	CAPACITANCE (mfd)	TOLERANCE	PAGE NO.
M606	Axial Oval Wrap & Fill	1.0 To 4.7	±5% To ±20%	3 - 62

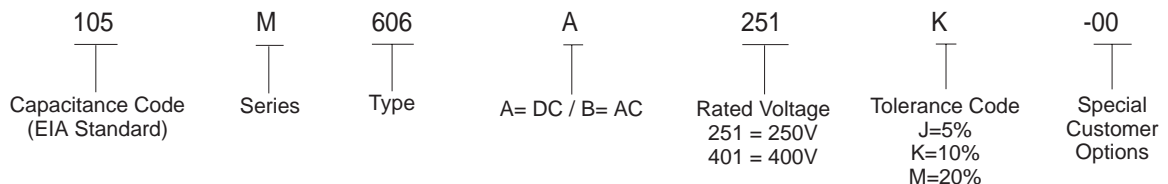
Features

- 1) Extended foil, non-inductive construction
- 2) Small size and self healing properties
- 3) Low dissipation factor, and low ESR values
- 4) High insulation resistance and high humidity resistance
- 5) High current-up to 4 Amps. for 20Khz thru 60Khz
- 6) Special high current termination

Applications

- 1) HI-Frequency transformer DC blocking
- 2) HI-Frequency ripple filtering
- 3) Input and output filtering
- 4) Snubber and SCR commutating circuits
- 5) Switching power supplies
- 6) Ignition processes
- 7) Electrolytic replacement

Part Numbering System



Specifications

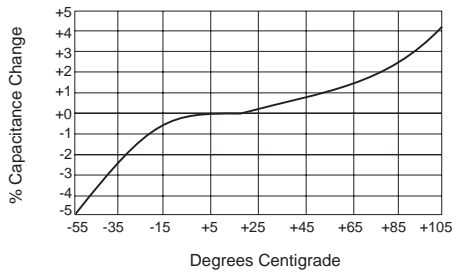
- 1) Operating Temperature Range: -55°C To +105°C with full Rated Voltage applied
- 2) Dissipation Factor: 1.0% Maximum at +25°C and 1Khz
- 3) Rated Voltage: 250VDC, 400VDC
- 4) Dielectric Strength: 200% of Rated Voltage for 5 seconds
- 5) Insulation Resistance: At +25°C after 2 minutes electrification at 100VDC, the minimum IR shall be ≥10,000 Megohms X MFD(sec)
- 6) Equivalent Series Resistance: Maximum ESR in milliohm measured at 100KHz and +25°C
- 7) Capacitance Change: Temperature coefficient +400 (±200) PPM/°C



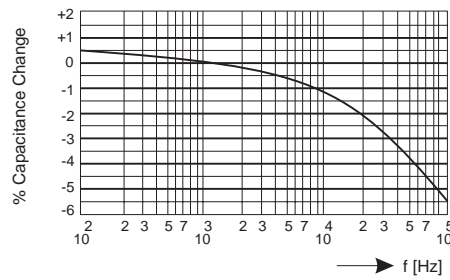
Low ESR Metallized Polyester

TYPE: M606 Series

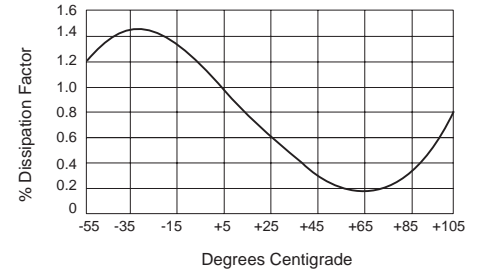
Capacitance Change vs. Temperature At 1KHz



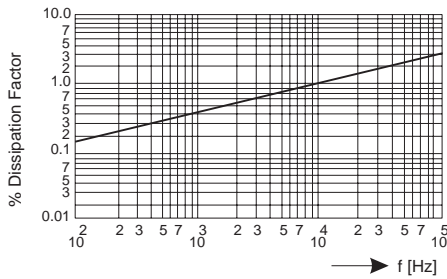
Capacitance Change vs. Frequency (Room Temp.)



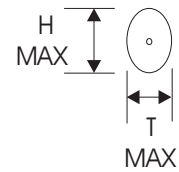
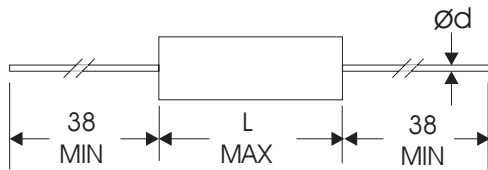
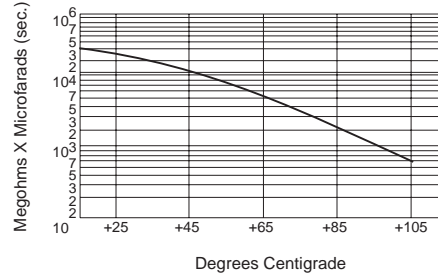
Dissipation Factor vs. Temperature At 1KHz



Dissipation Factor vs. Frequency (Room Temp.)



Insulation Resistance vs. Temperature



(mm)

CAP. (μ F)	250 VDC				Part No.	20 - 100KHZ ESR MAX:	I RMS (amps)	I PEAK (amps)
	T	H	L	d				
1.0	8.5	13.5	26.5	0.8	105M606A251K	39	2	7
1.5	10.5	17.0	26.5	0.8	155M606A251K	32	2	11
2.2	13.5	21.0	26.5	0.8	225M606A251K	26	3	16
3.3	13.5	21.0	32.0	0.8	335M606A251K	21	4	19
4.7	16.0	25.0	32.0	1.0	475M606A251K	17	4	26
CAP. (μ F)	400 VDC				Part No.	20 - 100KHZ ESR MAX:	I RMS (amps)	I PEAK (amps)
	T	H	L	d				
1.0	13.0	21.0	26.5	0.8	105M606A401K	39	2	10
1.5	16.5	25.0	26.5	1.0	155M606A401K	32	3	14
2.2	14.5	23.0	38.0	1.0	225M606A401K	26	4	16
3.3	18.5	27.0	38.0	1.0	335M606A401K	21	4	23
4.7	23.5	32.0	38.0	1.0	475M606A401K	17	4	33

*Other Values, Voltages, And Dimensions Are Available On Request