

GENERAL TECHNICAL CHARACTERISTICS

Dielectric : Polypropylene film
 Construction : Extended metallized film
 with internal series connection and metallized film
 Coating : Solvent resistant plastic case with resin sealing .
 Flame retardant execution (UL94V-0) .
 Leads: Tinned copper lugs for screw fixing
 or soldering on PCBS

ELECTRICAL CHARACTERISTICS

Operating temperature range(case) : - 40 to + 85 °C
 Capacitance : 1.5 to 40µF
 Rated Voltage : 330 to 700 Vdc
 Tolerance : ± 5%, ± 10%
 Dissipation factor: Measured at 1000±20 Hz AND 25±5°C.
 When Cr ≤15µF, 10×10⁻⁴
 When Cr >15µF, 14×10⁻⁴
 Life expectancy : 100,000 hours at Un and 70 °C



TEST METHODS AND PERFORMANCES

Dielectric strength: 2Ur (DC) applied for 10s at 25±5°C
 Test voltage terminal to case : 3 KV 50Hz for 60sec
 Insulation resistance (C*Ri) : ≥5000s

Electrical specifications, ordering codes

Part Number	Cap (µF)	Dimension (mm)			du/dt (v/µs)	Ipeak (A)	Irms max. (A)	ESR (mΩ)
		L	B	H				
Ur 330Vdc, Urms 200Vac, Upk 500Vdc								
SMC-330-6.8-*P#	6.8	42.5	24.5	27.5	30	204	16.5	2.8
SMC-330-15-*P#	15	42.5	33.5	35.5	30	450	24.0	2.0
SMC-330-20-*P#	20	42.5	33.0	45.0	30	600	27.0	1.8
SMC-330-22-*P#	22	42.5	33.0	45.0	30	660	27.5	1.7
SMC-330-25-*P#	25	57.5	30.0	45.0	17	425	23.5	2.8
SMC-330-30-*P#	30	57.5	30.0	45.0	17	510	25.0	2.6
SMC-330-35-*P#	35	57.5	35.0	50.0	17	595	30.0	2.3
SMC-330-40-*P#	40	57.5	35.0	50.0	17	680	32.0	2.1
Ur 400Vdc, Urms 250Vac, Upk 600Vdc								
SMC-400-4.0-*P#	4.0	42.5	24.5	27.5	40	160	15.5	3.2
SMC-400-5.0-*P#	5.0	42.5	24.5	27.5	40	200	17.0	2.8
SMC-400-6.8-*P#	6.8	42.5	33.5	35.5	40	272	22.0	2.4
SMC-400-10-*P	10	42.5	33.5	35.5	40	400	24.0	2.0
SMC-400-12.5-*P#	12.5	42.5	33.0	45.0	40	500	27.0	1.9
SMC-400-15-*P#	15	42.5	33.0	45.0	40	600	28.0	1.8
SMC-400-20-*P#	20	57.5	30.0	45.0	20	400	25.0	2.8
SMC-400-22-*P#	22	57.5	35.0	50.0	20	440	26.5	2.7
SMC-400-25-*P#	25	57.5	35.0	50.0	20	500	28.0	2.5
Ur 600Vdc, Urms 330Vac, Upk 800Vdc								
SMC-600-2.5-*P#	2.5	42.5	24.5	27.5	55	137	14.5	3.8
SMC-600-3.0-*P#	3.0	42.5	24.5	27.5	55	165	15.0	3.4
SMC-600-3.3-*P#	3.3	42.5	24.5	27.5	55	182	15.5	3.3
SMC-600-4.0-*P#	4.0	42.5	33.5	35.5	55	220	21.0	2.6
SMC-600-4.7-*P#	4.7	42.5	33.5	35.5	55	259	22.0	2.4
SMC-600-5.0-*P#	5.0	42.5	33.5	35.5	55	275	22.5	2.4
SMC-600-6.8-*P#	6.8	42.5	33.0	45.0	55	374	25.0	2.2
SMC-600-9.0-*P#	9.0	42.5	33.0	45.0	55	495	27.0	1.9
SMC-600-10-*P#	10	57.5	30.0	45.0	30	300	22.0	3.7
SMC-600-12.5-*P#	12.5	57.5	35.0	50.0	30	375	24.0	3.4
SMC-600-15-*P#	15	57.5	35.0	50.0	30	450	25.5	3.0

Electrical specifications, ordering codes

Part Number	Cap (μ F)	Dimension (mm)			du/dt (v/ μ s)	I _{peak} (A)	I _{rms max.} (A)	ESR (m Ω)
		L	L	L				
Ur 700Vdc, Urms 400Vac, Upk 1000Vdc								
SMC-700-1.5-*P#	1.5	42.5	24.5	27.5	70	105	13.5	4.6
SMC-700-2.0-*P#	2.0	42.5	24.5	27.5	70	140	14.5	3.8
SMC-700-2.5-*P	2.2	42.5	33.5	35.5	70	175	19.0	3.3
SMC-700-3.0-*P#	3.0	42.5	33.5	35.5	70	210	20.0	3.0
SMC-700-3.3-*P#	3.3	42.5	33.5	35.5	70	231	20.5	2.9
SMC-700-4.0-*P#	4.0	42.5	33.0	45.0	70	280	23.5	2.5
SMC-700-4.7-*P#	4.7	42.5	33.0	45.0	70	329	25.0	2.2
SMC-700-5.0-*P#	5.0	42.5	33.0	45.0	70	350	25.5	2.9
SMC-700-6.8-*P#	6.8	57.5	30.0	45.0	40	272	21.5	3.8
SMC-700-8.0-*P#	8.0	57.5	35.0	50.0	40	320	24.0	3.5
SMC-700-9.0-*P#	9.0	57.5	35.0	50.0	40	360	25.0	3.2

How to Order:

SMC - 600 - 10 - *P#

