

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 | B | H | | | | |
| U_r 700Vdc, U_{rms} 400Vac, U_{pk} 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:

