

SMR

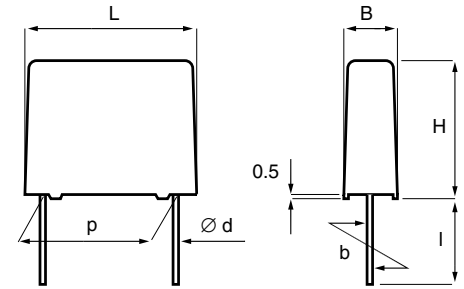
• Metallized polyphenylene sulfide

TYPICAL APPLICATIONS

Automotive and other applications with high ambient temperatures. Applications requiring high stability and low losses.

CONSTRUCTION

Polyphenylene sulphide film capacitor with vacuum-evaporated aluminum electrodes. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



TECHNICAL DATA

Rated voltage U_R , VDC

Rated voltage U_R , VAC

Capacitance, μF

Capacitance tolerance

Temperature range

Climatic category

Test voltage

Reliability

Capacitance drift

Dissipation factor $\tan \delta$

SMR5

SMR7.5...27.5

Insulation resistance

50 63 100 250 400

30 40 63 160 200

0.001 0.001 0.001 0.001 0.001

-22 -22 -12.0 -3.9 -1.8

$\pm 20\%$, $\pm 10\%$, $\pm 5\%$, $\pm 2.5\%$

$-55 \dots +125^\circ C$

From $+125^\circ C$ to $+150^\circ C$, the voltage derating is $2\%/^\circ C$.

IEC 60068-1, 55/125/56

DIN 40040, FKD

$1.6 \times U_R$ for 2s.

Operational life $> 200\,000$ h.

Failure rate < 3 FIT, $T = +40^\circ C$, $U = 0.5 \times U_R$.

Failure criteria according to DIN 44122.

Max. 0.3% after a 2 year storage period at a temperature of $+10^\circ \dots +40^\circ C$ and a relative humidity of 40 ... 60 %.

Maximum values at $+23^\circ C$

$C \leq 0.1 \mu F$ $0.1 \mu F < C \leq 1.0 \mu F$ $C > 1.0 \mu F$

1 kHz 0.15 % 0.15 % 0.15 %

10 kHz 0.25 % 0.25 % 0.35 %

100 kHz 0.50 % 0.60 % 0.60 %

1 kHz 0.15 % 0.15 % 0.15 %

10 kHz 0.25 % 0.25 % 0.25 %

100 kHz 0.60 % 0.60 % 0.60 %

Minimum values between terminals.

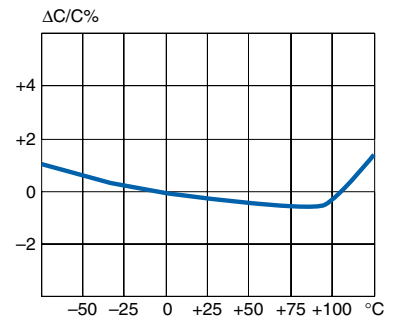
Measured at $+20^\circ C$, according to IEC 60384-1

$C \leq 0.33 \mu F$ $C > 0.33 \mu F$

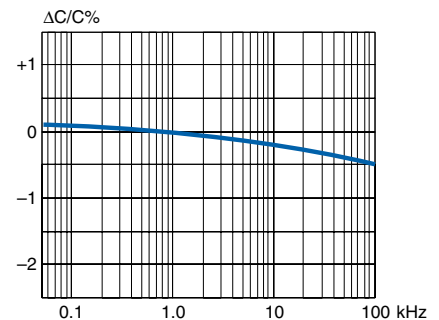
$U_R \leq 100$ V 15 000 M Ω 5 000 s

$U_R > 100$ V 30 000 M Ω 10 000 s

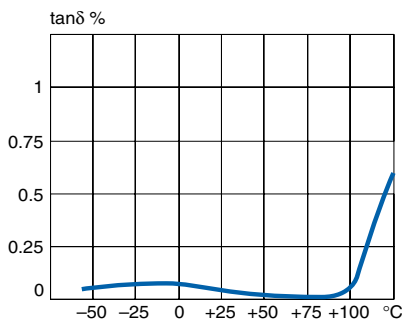
p	d	std l	max l	b
5.0 ± 0.4	0.5	4^{+1}	30	± 0.4
7.5 ± 0.4	0.6	4^{+1}	30	± 0.4
10.0 ± 0.4	0.6	4^{+1}	30	± 0.4
15.0 ± 0.4	0.8	4^{+1}	30	± 0.4
22.5 ± 0.4	0.8	4^{+1}	30	± 0.4
27.5 ± 0.4	0.8	4^{+1}	30	± 0.4



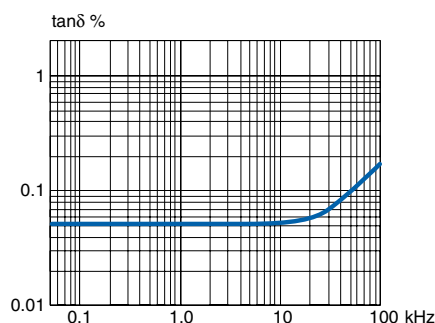
Capacitance vs. temperature (at 1 kHz)



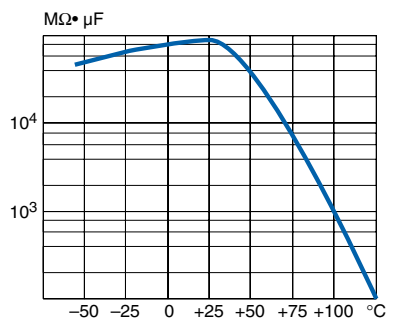
Capacitance vs. frequency (at $+23^\circ C$)



Dissipation factor vs. temperature (at 1 kHz)

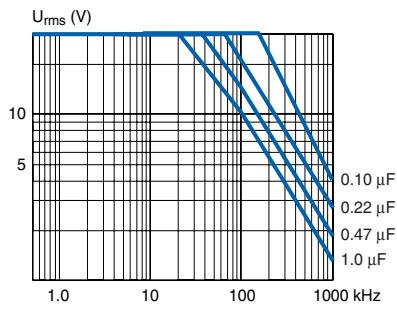


Dissipation factor vs. frequency (at $+23^\circ C$)

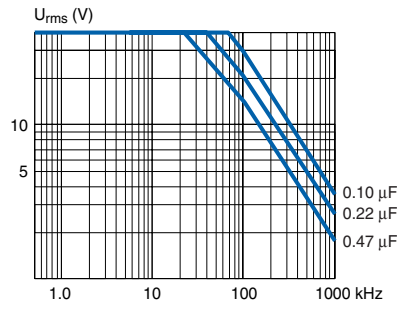


Insulation resistance vs. temperature

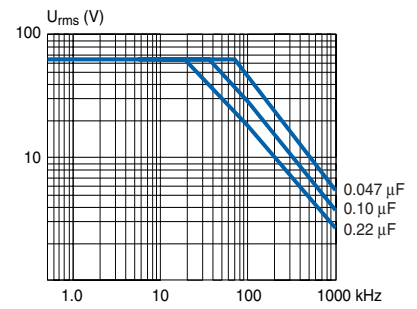
DERATING OF U_{RMS} VS FREQUENCY, +100°C AMBIENT TEMPERATURE AND 20°C INTERNAL HEATING, TYPICAL VALUES



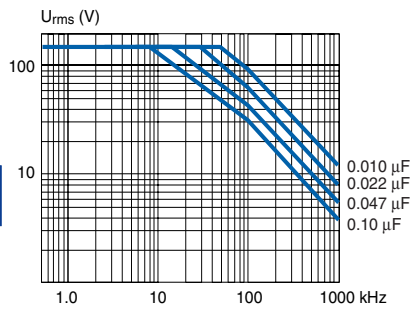
SMR5 50/30



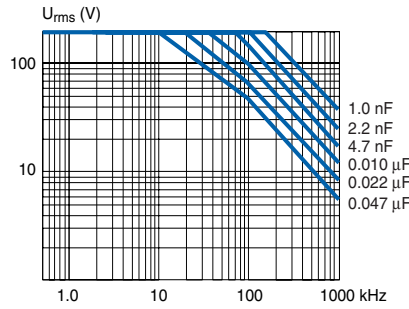
SMR5 63/40



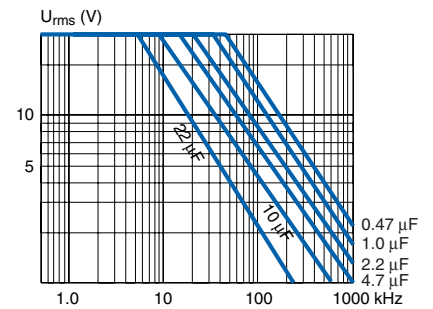
SMR5 100/63



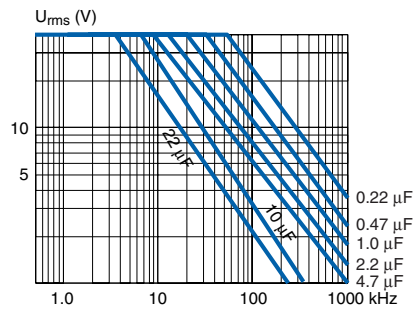
SMR5 250/160



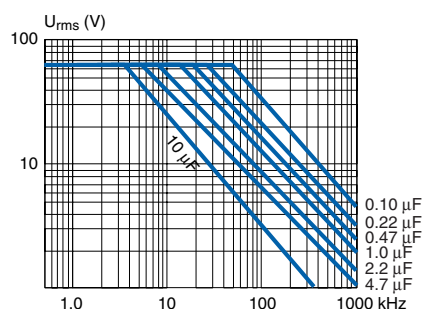
SMR5 400/200



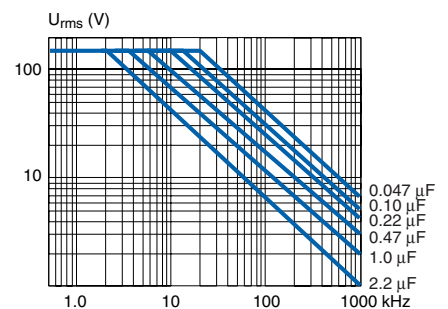
SMR7.5 ... 27.5 50/30



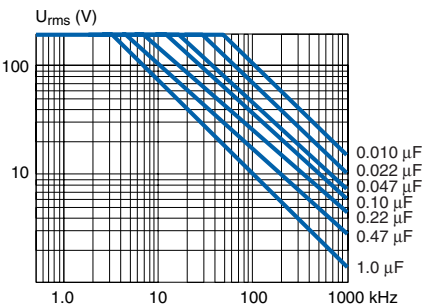
SMR7.5 ... 27.5 63/40



SMR7.5 ... 27.5 100/63



SMR7.5 ... 27.5 250/160



SMR7.5 ... 27.5 400/200

ENVIRONMENTAL TEST DATA

Damp heat test Test conditions: Test criteria:

$T = +40^{\circ}\text{C}$, $\text{RH} = 93\%$, $t = 56$ days.
 $\Delta C/C \leq \pm 3\%$,
 $\Delta \tan \delta \leq 0.0025$ (1kHz)
 IR after test $0.5 \times \text{IR min.}$

Endurance test Test conditions: Test criteria:

$T = +125^{\circ}\text{C}$, $U = 1.25 \times (0.5 \times U_R)$,
 $t = 2000$ h.
 $\Delta C/C \leq \pm 3\%$,
 $\Delta \tan \delta \leq 0.002$ (1kHz), $C > 1 \mu\text{F}$
 $\Delta \tan \delta \leq 0.003$ (10kHz), $C \leq 1 \mu\text{F}$
 IR after test $0.5 \times \text{IR min.}$

ARTICLE TABLE

Capaci- tance µF	Max dimensions in mm				Quantity per package			Max	dU/dt	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo	V/µs	
50 VDC/30 VAC										
LEAD SPACING 5 MM										
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 102K50J01L4BULK
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 122K50J01L4BULK
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 152K50J01L4BULK
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 182K50J01L4BULK
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 222K50J01L4BULK
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 272K50J01L4BULK
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 332K50J01L4BULK
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 392K50J01L4BULK
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 472K50J01L4BULK
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 562K50J01L4BULK
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 682K50J01L4BULK
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 822K50J01L4BULK
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 103K50J01L4BULK
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 123K50J01L4BULK
0.015	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 153K50J01L4BULK
0.018	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 183K50J01L4BULK
0.022	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 223K50J01L4BULK
0.027	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 273K50J01L4BULK
0.033	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 333K50J01L4BULK
0.039	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 393K50J01L4BULK
0.047	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 473K50J01L4BULK
0.056	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 563K50J01L4BULK
0.068	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 683K50J01L4BULK
0.082	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 823K50J01L4BULK
0.10	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 104K50J01L4BULK
0.12	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 124K50J01L4BULK
0.15	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 154K50J02L4BULK
0.18	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 184K50J02L4BULK
0.22	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 224K50J02L4BULK
0.27	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 274K50J02L4BULK
0.33	4.5	9.0	7.2	5.0	1000		1500	1700	6	SMR5 334K50J03L4BULK
0.39	4.5	9.0	7.2	5.0	1000		1500	1700	6	SMR5 394K50J03L4BULK
0.47	5.0	10.0	7.2	5.0	1000		1300	1500	6	SMR5 474K50J04L4BULK
0.56	5.0	10.0	7.2	5.0	1000		1300	1500	6	SMR5 564K50J04L4BULK
0.68	6.0	11.0	7.2	5.0	1000		1000	1200	6	SMR5 684K50J05L4BULK
0.82	6.0	11.0	7.2	5.0	1000		1000	1200	6	SMR5 824K50J05L4BULK
1.0	7.2	13.0	7.2	5.0	1000		800		6	SMR5 105K50J06L4BULK
1.2	7.2	13.0	7.2	5.0	1000		800		6	SMR5 125K50J06L4BULK
LEAD SPACING 7.5 MM										
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 102K50K01L4BULK
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 122K50K01L4BULK
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 152K50K01L4BULK
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 182K50K01L4BULK
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 222K50K01L4BULK
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 272K50K01L4BULK
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 332K50K01L4BULK
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 392K50K01L4BULK
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 472K50K01L4BULK
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 562K50K01L4BULK
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 682K50K01L4BULK
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 822K50K01L4BULK
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 103K50K01L4BULK
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 123K50K01L4BULK
0.015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 153K50K01L4BULK
0.018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 183K50K01L4BULK
0.022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 223K50K01L4BULK
0.027	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 273K50K01L4BULK
0.033	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 333K50K01L4BULK

ARTICLE TABLE										
Capaci- tance µF	Max dimensions in mm				Quantity per package			Max	dU/dt V/µs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
50 VDC/30 VAC										
LEAD SPACING 7.5 MM										
0.039	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 393K50K01L4BULK
0.047	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 473K50K01L4BULK
0.056	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 563K50K01L4BULK
0.068	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 683K50K01L4BULK
0.082	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 823K50K01L4BULK
0.10	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 104K50K01L4BULK
0.12	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 124K50K01L4BULK
0.15	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 154K50K01L4BULK
0.18	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 184K50K01L4BULK
0.22	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 224K50K01L4BULK
0.27	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 274K50K01L4BULK
0.33	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 334K50K01L4BULK
0.39	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 394K50K01L4BULK
0.47	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 474K50K03L4BULK
0.56	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 564K50K03L4BULK
0.68	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 684K50K03L4BULK
0.82	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 824K50K03L4BULK
1.0	6.0	12.0	10.5	7.5	1000		1000	1200	10	SMR7,5 105K50K04L4BULK
1.2	6.0	12.0	10.5	7.5	1000		1000	1200	10	SMR7,5 125K50K04L4BULK
LEAD SPACING 10 MM										
0.0027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 272K50A01L4BULK
0.0033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 332K50A01L4BULK
0.0039	4.0	9.0	13.0	10.0	1000		900		25	SMR10 392K50A01L4BULK
0.0047	4.0	9.0	13.0	10.0	1000		900		25	SMR10 472K50A01L4BULK
0.0056	4.0	9.0	13.0	10.0	1000		900		25	SMR10 562K50A01L4BULK
0.0068	4.0	9.0	13.0	10.0	1000		900		25	SMR10 682K50A01L4BULK
0.0082	4.0	9.0	13.0	10.0	1000		900		25	SMR10 822K50A01L4BULK
0.010	4.0	9.0	13.0	10.0	1000		900		25	SMR10 103K50A01L4BULK
0.012	4.0	9.0	13.0	10.0	1000		900		25	SMR10 123K50A01L4BULK
0.015	4.0	9.0	13.0	10.0	1000		900		25	SMR10 153K50A01L4BULK
0.018	4.0	9.0	13.0	10.0	1000		900		25	SMR10 183K50A01L4BULK
0.022	4.0	9.0	13.0	10.0	1000		900		25	SMR10 223K50A01L4BULK
0.027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 273K50A01L4BULK
0.033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 333K50A01L4BULK
0.039	4.0	9.0	13.0	10.0	1000		900		15	SMR10 393K50A01L4BULK
0.047	4.0	9.0	13.0	10.0	1000		900		15	SMR10 473K50A01L4BULK
0.056	4.0	9.0	13.0	10.0	1000		900		15	SMR10 563K50A01L4BULK
0.068	4.0	9.0	13.0	10.0	1000		900		15	SMR10 683K50A01L4BULK
0.082	4.0	9.0	13.0	10.0	1000		900		10	SMR10 823K50A01L4BULK
0.10	4.0	9.0	13.0	10.0	1000		900		10	SMR10 104K50A01L4BULK
0.12	4.0	9.0	13.0	10.0	1000		900		10	SMR10 124K50A01L4BULK
0.15	4.0	9.0	13.0	10.0	1000		900		10	SMR10 154K50A01L4BULK
0.18	4.0	9.0	13.0	10.0	1000		900		10	SMR10 184K50A01L4BULK
0.22	4.0	9.0	13.0	10.0	1000		900		10	SMR10 224K50A01L4BULK
0.27	4.0	9.0	13.0	10.0	1000		900		8	SMR10 274K50A01L4BULK
0.33	4.0	9.0	13.0	10.0	1000		900		8	SMR10 334K50A01L4BULK
0.39	4.0	9.0	13.0	10.0	1000		900		8	SMR10 394K50A01L4BULK
0.47	4.0	9.0	13.0	10.0	1000		900		8	SMR10 474K50A01L4BULK
0.56	4.0	9.0	13.0	10.0	1000		900		8	SMR10 564K50A01L4BULK
0.68	4.0	9.0	13.0	10.0	1000		900		8	SMR10 684K50A01L4BULK
0.82	4.5	10.5	13.0	10.0	1000		800		8	SMR10 824K50A02L4BULK
1.0	4.5	10.5	13.0	10.0	1000		800		8	SMR10 105K50A02L4BULK
1.2	5.0	11.0	13.0	10.0	800		700		8	SMR10 125K50A03L4BULK
1.5	6.0	12.0	13.0	10.0	600		500		8	SMR10 155K50A04L4BULK
1.8	6.0	12.0	13.0	10.0	600		500		8	SMR10 185K50A04L4BULK

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/μs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
50 VDC/30 VAC										
LEAD SPACING 15 MM										
2.2	6.5	12.5	18.0	15.0	1000		500		6	SMR15 225K50B10L4BULK
2.7	7.5	14.5	18.0	15.0	800		400		6	SMR15 275K50B06L4BULK
3.3	7.5	14.5	18.0	15.0	800		400		6	SMR15 335K50B06L4BULK
3.9	8.0	15.0	18.0	15.0	600		400		6	SMR15 395K50B12L4BULK
4.7	8.5	16.0	18.0	15.0	600		400		6	SMR15 475K50B11L4BULK
5.6	9.5	17.5	18.0	15.0	500		350		6	SMR15 565K50B14L4BULK
LEAD SPACING 22.5 MM										
6.8	8.0	16.0	26.0	22.5		186			3	SMR22,5 685K50D14L4TRAY
8.2	9.0	18.5	26.0	22.5		168			3	SMR22,5 825K50D15L4TRAY
10.0	10.5	19.0	26.0	22.5		264			3	SMR22,5 106K50D18L4TRAY
12.0	11.0	21.5	26.0	22.5		253			3	SMR22,5 126K50D16L4TRAY
LEAD SPACING 27.5 MM										
15.0	10.5	20.5	31.5	27.5		216			2	SMR27,5 156K50F11L4TRAY
18.0	11.5	22.5	31.5	27.5		198			2	SMR27,5 186K50F12L4TRAY
22.0	14.5	24.5	31.5	27.5		153			2	SMR27,5 226K50F13L4TRAY
63 VDC/40 VAC										
LEAD SPACING 5 MM										
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 102K63J01L4 BULK
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 122K63J01L4 BULK
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 152K63J01L4 BULK
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 182K63J01L4 BULK
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 222K63J01L4 BULK
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 272K63J01L4 BULK
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 332K63J01L4 BULK
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 392K63J01L4 BULK
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 472K63J01L4 BULK
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 562K63J01L4 BULK
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 682K63J01L4 BULK
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 822K63J01L4 BULK
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 103K63J01L4 BULK
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 123K63J01L4 BULK
0.015	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 153K63J01L4 BULK
0.018	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 183K63J01L4 BULK
0.022	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 223K63J01L4 BULK
0.027	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 273K63J01L4 BULK
0.033	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 333K63J01L4 BULK
0.039	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 393K63J01L4 BULK
0.047	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 473K63J01L4 BULK
0.056	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 563K63J01L4 BULK
0.068	2.5	6.5	7.2	5.0	2000		2500	3000	6	SMR5 683K63J01L4 BULK
0.082	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 823K63J02L4 BULK
0.10	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 104K63J02L4 BULK
0.12	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 124K63J02L4 BULK
0.15	3.5	8.0	7.2	5.0	2000		2000	2000	6	SMR5 154K63J02L4 BULK
0.18	4.5	9.0	7.2	5.0	1000		1500	1700	6	SMR5 184K63J03L4 BULK
0.22	4.5	9.0	7.2	5.0	1000		1500	1700	6	SMR5 224K63J03L4 BULK
0.27	5.0	10.0	7.2	5.0	1000		1300	1500	6	SMR5 274K63J04L4 BULK
0.33	5.0	10.0	7.2	5.0	1000		1300	1500	6	SMR5 334K63J04L4 BULK
0.39	6.0	11.0	7.2	5.0	1000		1000	1200	6	SMR5 394K63J05L4 BULK
0.47	6.0	11.0	7.2	5.0	1000		1000	1200	6	SMR5 474K63J05L4 BULK
0.56	7.2	13.0	7.2	5.0	1000		800		6	SMR5 564K63J06L4 BULK
0.68	7.2	13.0	7.2	5.0	1000		800		6	SMR5 684K63J06L4 BULK

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/μs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
63 VDC/40 VAC										
LEAD SPACING 7.5 MM										
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 102K63K01L4 BULK
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 122K63K01L4 BULK
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 152K63K01L4 BULK
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 182K63K01L4 BULK
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 222K63K01L4 BULK
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 272K63K01L4 BULK
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 332K63K01L4 BULK
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 392K63K01L4 BULK
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 472K63K01L4 BULK
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 562K63K01L4 BULK
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 682K63K01L4 BULK
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 822K63K01L4 BULK
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 103K63K01L4 BULK
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 123K63K01L4 BULK
0.015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 153K63K01L4 BULK
0.018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 183K63K01L4 BULK
0.022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 223K63K01L4 BULK
0.027	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 273K63K01L4 BULK
0.033	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 333K63K01L4 BULK
0.039	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 393K63K01L4 BULK
0.047	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 473K63K01L4 BULK
0.056	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 563K63K01L4 BULK
0.068	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 683K63K01L4 BULK
0.082	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 823K63K01L4 BULK
0.10	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 104K63K01L4 BULK
0.12	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 124K63K01L4 BULK
0.15	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 154K63K01L4 BULK
0.18	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 184K63K01L4 BULK
0.22	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 224K63K01L4 BULK
0.27	4.0	8.0	10.0	7.5	1000		1700	1900	10	SMR7,5 274K63K01L4 BULK
0.33	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 334K63K03L4 BULK
0.39	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 394K63K03L4 BULK
0.47	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 474K63K03L4 BULK
0.56	5.0	11.0	10.5	7.5	1000		1300	1500	10	SMR7,5 564K63K03L4 BULK
0.68	6.0	12.0	10.5	7.5	1000		1000	1200	10	SMR7,5 684K63K04L4 BULK
0.82	6.0	12.0	10.5	7.5	1000		1000	1200	10	SMR7,5 824K63K04L4 BULK
LEAD SPACING 10 MM										
0.0027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 272K63A01L4 BULK
0.0033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 332K63A01L4 BULK
0.0039	4.0	9.0	13.0	10.0	1000		900		25	SMR10 392K63A01L4 BULK
0.0047	4.0	9.0	13.0	10.0	1000		900		25	SMR10 472K63A01L4 BULK
0.0056	4.0	9.0	13.0	10.0	1000		900		25	SMR10 562K63A01L4 BULK
0.0068	4.0	9.0	13.0	10.0	1000		900		25	SMR10 682K63A01L4 BULK
0.0082	4.0	9.0	13.0	10.0	1000		900		25	SMR10 822K63A01L4 BULK
0.010	4.0	9.0	13.0	10.0	1000		900		25	SMR10 103K63A01L4 BULK
0.012	4.0	9.0	13.0	10.0	1000		900		25	SMR10 123K63A01L4 BULK
0.015	4.0	9.0	13.0	10.0	1000		900		25	SMR10 153K63A01L4 BULK
0.018	4.0	9.0	13.0	10.0	1000		900		25	SMR10 183K63A01L4 BULK
0.022	4.0	9.0	13.0	10.0	1000		900		25	SMR10 223K63A01L4 BULK
0.027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 273K63A01L4 BULK
0.033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 333K63A01L4 BULK
0.039	4.0	9.0	13.0	10.0	1000		900		15	SMR10 393K63A01L4 BULK
0.047	4.0	9.0	13.0	10.0	1000		900		15	SMR10 473K63A01L4 BULK
0.056	4.0	9.0	13.0	10.0	1000		900		15	SMR10 563K63A01L4 BULK
0.068	4.0	9.0	13.0	10.0	1000		900		15	SMR10 683K63A01L4 BULK
0.082	4.0	9.0	13.0	10.0	1000		900		10	SMR10 823K63A01L4 BULK
0.10	4.0	9.0	13.0	10.0	1000		900		10	SMR10 104K63A01L4 BULK
0.12	4.0	9.0	13.0	10.0	1000		900		10	SMR10 124K63A01L4 BULK
0.15	4.0	9.0	13.0	10.0	1000		900		10	SMR10 154K63A01L4 BULK

ARTICLE TABLE

Capaci- tance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/μs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
63 VDC/40 VAC										
LEAD SPACING 10MM										
0.18	4.0	9.0	13.0	10.0	1000		900		10	SMR10 184K63A01L4 BULK
0.22	4.0	9.0	13.0	10.0	1000		900		10	SMR10 224K63A01L4 BULK
0.27	4.0	9.0	13.0	10.0	1000		900		8	SMR10 274K63A01L4 BULK
0.33	4.0	9.0	13.0	10.0	1000		900		8	SMR10 334K63A01L4 BULK
0.39	4.0	9.0	13.0	10.0	1000		900		8	SMR10 394K63A01L4 BULK
0.47	4.5	10.5	13.0	10.0	1000		800		8	SMR10 474K63A02L4 BULK
0.56	4.5	10.5	13.0	10.0	1000		800		8	SMR10 564K63A02L4 BULK
0.68	5.0	11.0	13.0	10.0	800		700		8	SMR10 684K63A03L4 BULK
0.82	6.0	12.0	13.0	10.0	600		500		8	SMR10 824K63A04L4 BULK
1.0	6.0	12.0	13.0	10.0	600		500		8	SMR10 105K63A04L4 BULK
LEAD SPACING 15 MM										
0.68	5.5	10.5	18.0	15.0	1000		600		8	SMR15 684K63B04L4 BULK
0.82	5.5	10.5	18.0	15.0	1000		600		8	SMR15 824K63B04L4 BULK
1.0	5.5	12.5	18.0	15.0	1000		600		8	SMR15 105K63B05L4 BULK
1.2	6.5	12.5	18.0	15.0	1000		500		6	SMR15 125K63B10L4 BULK
1.5	6.5	12.5	18.0	15.0	1000		500		6	SMR15 155K63B10L4 BULK
1.8	7.5	14.5	18.0	15.0	800		400		6	SMR15 185K63B06L4 BULK
2.2	8.0	15.0	18.0	15.0	600		400		6	SMR15 225K63B12L4 BULK
2.7	8.5	16.0	18.0	15.0	600		400		6	SMR15 275K63B11L4 BULK
3.3	9.5	17.5	18.0	15.0	500		350		6	SMR15 335K63B14L4 BULK
LEAD SPACING 22.5 MM										
2.7	6.5	14.5	26.0	22.5		234			3	SMR22.5 275K63D13L4 TRAY
3.3	7.0	16.5	26.0	22.5		216			3	SMR22.5 335K63D17L4 TRAY
3.9	8.0	16.0	26.0	22.5		186			3	SMR22.5 395K63D14L4 TRAY
4.7	9.0	18.5	26.0	22.5		168			3	SMR22.5 475K63D15L4 TRAY
5.6	9.0	18.5	26.0	22.5		168			3	SMR22.5 565K63D15L4 TRAY
6.8	10.5	19.0	26.0	22.5		264			3	SMR22.5 685K63D18L4 TRAY
8.2	11.0	21.5	26.0	22.5		253			3	SMR22.5 825K63D16L4 TRAY
LEAD SPACING 27.5 MM										
10.0	11.5	22.5	31.5	27.5		198			2	SMR27,5 106K63F12L4 TRAY
12.0	14.5	24.5	31.5	27.5		153			2	SMR27,5 126K63F13L4 TRAY
15.0	14.5	24.5	31.5	27.5		153			2	SMR27,5 156K63F13L4 TRAY
18.0	17.5	28.0	31.5	27.5		126			2	SMR27,5 186K63F14L4 TRAY
22.0	17.5	28.0	31.5	27.5		126			2	SMR27,5 226K63F14L4 TRAY
100 VDC/63 VAC										
LEAD SPACING 5 MM										
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 102K100J01L4 BULK
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 122K100J01L4 BULK
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 152K100J01L4 BULK
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 182K100J01L4 BULK
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 222K100J01L4 BULK
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 272K100J01L4 BULK
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 332K100J01L4 BULK
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 392K100J01L4 BULK
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 472K100J01L4 BULK
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 562K100J01L4 BULK
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 682K100J01L4 BULK
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 822K100J01L4 BULK
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 103K100J01L4 BULK
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 123K100J01L4 BULK

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/ μs	Article code		
	B	H	L	p	Bulk	Tray	Reel	Ammo				
100 VDC/63 VAC												
LEAD SPACING 5 MM												
0.015	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 153K100J01L4 BULK		
0.018	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 183K100J01L4 BULK		
0.022	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 223K100J01L4 BULK		
0.027	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 273K100J01L4 BULK		
0.033	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 333K100J01L4 BULK		
0.039	2.5	6.5	7.2	5.0	2000		2500	3000	15	SMR5 393K100J01L4 BULK		
0.047	3.5	8.0	7.2	5.0	2000		2000	2000	15	SMR5 473K100J02L4 BULK		
0.056	4.5	9.0	7.2	5.0	1000		1500	1700	15	SMR5 563K100J03L4 BULK		
0.068	4.5	9.0	7.2	5.0	1000		1500	1700	15	SMR5 683K100J03L4 BULK		
0.082	4.5	9.0	7.2	5.0	1000		1500	1700	15	SMR5 823K100J03L4 BULK		
0.10	4.5	9.0	7.2	5.0	1000		1500	1700	15	SMR5 104K100J03L4 BULK		
0.12	5.0	10.0	7.2	5.0	1000		1300	1500	15	SMR5 124K100J04L4 BULK		
0.15	6.0	11.0	7.2	5.0	1000		1000	1200	15	SMR5 154K100J05L4 BULK		
0.18	6.0	11.0	7.2	5.0	1000		1000	1200	15	SMR5 184K100J05L4 BULK		
0.22	7.2	13.0	7.2	5.0	1000		800		15	SMR5 224K100J06L4 BULK		
0.27	7.2	13.0	7.2	5.0	1000		800		15	SMR5 274K100J06L4 BULK		
0.33	7.2	13.0	7.2	5.0	1000		800		15	SMR5 334K100J06L4 BULK		
LEAD SPACING 7.5 MM												
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 102K100K01L4 BULK		
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 122K100K01L4 BULK		
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 152K100K01L4 BULK		
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 182K100K01L4 BULK		
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 222K100K01L4 BULK		
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 272K100K01L4 BULK		
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 332K100K01L4 BULK		
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 392K100K01L4 BULK		
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 472K100K01L4 BULK		
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 562K100K01L4 BULK		
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 682K100K01L4 BULK		
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 822K100K01L4 BULK		
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 103K100K01L4 BULK		
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 123K100K01L4 BULK		
0.015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 153K100K01L4 BULK		
0.018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 183K100K01L4 BULK		
0.022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 223K100K01L4 BULK		
0.027	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 273K100K01L4 BULK		
0.033	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 333K100K01L4 BULK		
0.039	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 393K100K01L4 BULK		
0.047	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 473K100K01L4 BULK		
0.056	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 563K100K01L4 BULK		
0.068	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 683K100K01L4 BULK		
0.082	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 823K100K01L4 BULK		
0.10	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 104K100K01L4 BULK		
0.12	4.0	8.0	10.0	7.5	1000		1700	1900	15	SMR7,5 124K100K01L4 BULK		
0.15	5.0	11.0	10.5	7.5	1000		1300	1500	15	SMR7,5 154K100K03L4 BULK		
0.18	5.0	11.0	10.5	7.5	1000		1300	1500	15	SMR7,5 184K100K03L4 BULK		
0.22	5.0	11.0	10.5	7.5	1000		1300	1500	15	SMR7,5 224K100K03L4 BULK		
0.27	5.0	11.0	10.5	7.5	1000		1300	1500	15	SMR7,5 274K100K03L4 BULK		
0.33	6.0	12.0	10.5	7.5	1000		1000	1200	15	SMR7,5 334K100K04L4 BULK		
0.39	6.0	12.0	10.5	7.5	1000		1000	1200	15	SMR7,5 394K100K04L4 BULK		
0.47	6.0	12.0	10.5	7.5	1000		1000	1200	15	SMR7,5 474K100K04L4 BULK		
LEAD SPACING 10 MM												
0.0027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 272K100A01L4 BULK		
0.0033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 332K100A01L4 BULK		
0.0039	4.0	9.0	13.0	10.0	1000		900		25	SMR10 392K100A01L4 BULK		
0.0047	4.0	9.0	13.0	10.0	1000		900		25	SMR10 472K100A01L4 BULK		

ARTICLE TABLE

Capaci- tance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/μs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
100 VDC/63 VAC										
LEAD SPACING 10 MM										
0.0056	4.0	9.0	13.0	10.0	1000		900		25	SMR10 562K100A01L4 BULK
0.0068	4.0	9.0	13.0	10.0	1000		900		25	SMR10 682K100A01L4 BULK
0.0082	4.0	9.0	13.0	10.0	1000		900		25	SMR10 822K100A01L4 BULK
0.010	4.0	9.0	13.0	10.0	1000		900		25	SMR10 103K100A01L4 BULK
0.012	4.0	9.0	13.0	10.0	1000		900		25	SMR10 123K100A01L4 BULK
0.015	4.0	9.0	13.0	10.0	1000		900		25	SMR10 153K100A01L4 BULK
0.018	4.0	9.0	13.0	10.0	1000		900		25	SMR10 183K100A01L4 BULK
0.022	4.0	9.0	13.0	10.0	1000		900		25	SMR10 223K100A01L4 BULK
0.027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 273K100A01L4 BULK
0.033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 333K100A01L4 BULK
0.039	4.0	9.0	13.0	10.0	1000		900		15	SMR10 393K100A01L4 BULK
0.047	4.0	9.0	13.0	10.0	1000		900		15	SMR10 473K100A01L4 BULK
0.056	4.0	9.0	13.0	10.0	1000		900		15	SMR10 563K100A01L4 BULK
0.068	4.0	9.0	13.0	10.0	1000		900		15	SMR10 683K100A01L4 BULK
0.082	4.0	9.0	13.0	10.0	1000		900		10	SMR10 823K100A01L4 BULK
0.10	4.0	9.0	13.0	10.0	1000		900		10	SMR10 104K100A01L4 BULK
0.12	4.0	9.0	13.0	10.0	1000		900		10	SMR10 124K100A01L4 BULK
0.15	4.0	9.0	13.0	10.0	1000		900		10	SMR10 154K100A01L4 BULK
0.18	4.0	9.0	13.0	10.0	1000		900		10	SMR10 184K100A01L4 BULK
0.22	4.0	9.0	13.0	10.0	1000		900		10	SMR10 224K100A01L4 BULK
0.27	4.5	10.5	13.0	10.0	1000		800		10	SMR10 274K100A02L4 BULK
0.33	5.0	11.0	13.0	10.0	800		700		10	SMR10 334K100A03L4 BULK
0.39	5.0	11.0	13.0	10.0	800		700		10	SMR10 394K100A03L4 BULK
0.47	6.0	12.0	13.0	10.0	600		500		10	SMR10 474K100A04L4 BULK
0.56	6.0	12.0	13.0	10.0	600		500		10	SMR10 564K100A04L4 BULK
LEAD SPACING 15 MM										
0.27	5.5	10.5	18.0	15.0	1000		600		8	SMR15 274K100B04L4 BULK
0.33	5.5	10.5	18.0	15.0	1000		600		8	SMR15 334K100B04L4 BULK
0.39	5.5	10.5	18.0	15.0	1000		600		8	SMR15 394K100B04L4 BULK
0.47	5.5	10.5	18.0	15.0	1000		600		8	SMR15 474K100B04L4 BULK
0.56	5.5	12.5	18.0	15.0	1000		600		8	SMR15 564K100B05L4 BULK
0.68	6.5	12.5	18.0	15.0	1000		500		8	SMR15 684K100B10L4 BULK
0.82	7.5	14.5	18.0	15.0	800		400		8	SMR15 824K100B06L4 BULK
1.0	7.5	14.5	18.0	15.0	800		400		8	SMR15 105K100B06L4 BULK
1.2	8.0	15.0	18.0	15.0	600		400		8	SMR15 125K100B12L4 BULK
1.5	8.5	16.0	18.0	15.0	600		400		8	SMR15 155K100B11L4 BULK
1.8	9.5	17.5	18.0	15.0	500		350		8	SMR15 185K100B14L4 BULK
LEAD SPACING 22.5 MM										
1.5	6.5	14.5	26.0	22.5		234			4	SMR22.5 155K100D13L4 TRAY
1.8	7.0	16.5	26.0	22.5		216			4	SMR22.5 185K100D17L4 TRAY
2.2	8.0	16.0	26.0	22.5		186			4	SMR22.5 225K100D14L4 TRAY
2.7	9.0	18.5	26.0	22.5		168			4	SMR22.5 275K100D15L4 TRAY
3.3	10.5	19.0	26.0	22.5		264			4	SMR22.5 335K100D18L4 TRAY
3.9	10.5	19.0	26.0	22.5		264			4	SMR22.5 395K100D18L4 TRAY
4.7	11.0	21.5	26.0	22.5		253			4	SMR22.5 475K100D16L4 TRAY
LEAD SPACING 27.5 MM										
5.6	11.5	22.5	31.5	27.5		198			3	SMR27,5 565K100F12L4 TRAY
6.8	14.5	24.5	31.5	27.5		153			3	SMR27,5 685K100F13L4 TRAY
8.2	14.5	24.5	31.5	27.5		153			3	SMR27,5 825K100F13L4 TRAY
10.0	17.5	28.0	31.5	27.5		126			3	SMR27,5 106K100F14L4 TRAY
12.0	17.5	28.0	31.5	27.5		126			3	SMR27,5 126K100F14L4 TRAY

ARTICLE TABLE

Capaci- tance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/μs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
250 VDC/160 VAC										
LEAD SPACING 5 MM										
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 102K250J01L4 BULK
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 122K250J01L4 BULK
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 152K250J01L4 BULK
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 182K250J01L4 BULK
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 222K250J01L4 BULK
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 272K250J01L4 BULK
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 332K250J01L4 BULK
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 392K250J01L4 BULK
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 472K250J01L4 BULK
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 562K250J01L4 BULK
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 682K250J01L4 BULK
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 822K250J01L4 BULK
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 103K250J01L4 BULK
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	20	SMR5 123K250J01L4 BULK
0.015	3.5	8.0	7.2	5.0	2000		2000	2000	20	SMR5 153K250J02L4 BULK
0.018	3.5	8.0	7.2	5.0	2000		2000	2000	20	SMR5 183K250J02L4 BULK
0.022	3.5	8.0	7.2	5.0	2000		2000	2000	20	SMR5 223K250J02L4 BULK
0.027	3.5	8.0	7.2	5.0	2000		2000	2000	20	SMR5 273K250J02L4 BULK
0.033	4.5	9.0	7.2	5.0	1000		1500	1700	20	SMR5 333K250J03L4 BULK
0.039	4.5	9.0	7.2	5.0	1000		1500	1700	20	SMR5 393K250J03L4 BULK
0.047	4.5	9.0	7.2	5.0	1000		1500	1700	20	SMR5 473K250J03L4 BULK
0.056	5.0	10.0	7.2	5.0	1000		1300	1500	20	SMR5 563K250J04L4 BULK
0.068	6.0	11.0	7.2	5.0	1000		1000	1200	20	SMR5 683K250J05L4 BULK
0.082	6.0	11.0	7.2	5.0	1000		1000	1200	20	SMR5 823K250J05L4 BULK
0.10	7.2	13.0	7.2	5.0	1000		800		20	SMR5 104K250J06L4 BULK
0.12	7.2	13.0	7.2	5.0	1000		800		20	SMR5 124K250J06L4 BULK
LEAD SPACING 7.5 MM										
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 102K250K01L4 BULK
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 122K250K01L4 BULK
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 152K250K01L4 BULK
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 182K250K01L4 BULK
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 222K250K01L4 BULK
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 272K250K01L4 BULK
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 332K250K01L4 BULK
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 392K250K01L4 BULK
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 472K250K01L4 BULK
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 562K250K01L4 BULK
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 682K250K01L4 BULK
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 822K250K01L4 BULK
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 103K250K01L4 BULK
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 123K250K01L4 BULK
0.015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 153K250K01L4 BULK
0.018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 183K250K01L4 BULK
0.022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 223K250K01L4 BULK
0.027	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 273K250K01L4 BULK
0.033	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 333K250K01L4 BULK
0.039	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 393K250K01L4 BULK
0.047	4.0	8.0	10.0	7.5	1000		1700	1900	20	SMR7,5 473K250K01L4 BULK
0.056	5.0	11.0	10.5	7.5	1000		1300	1500	20	SMR7,5 563K250K03L4 BULK
0.068	5.0	11.0	10.5	7.5	1000		1300	1500	20	SMR7,5 683K250K03L4 BULK
0.082	5.0	11.0	10.5	7.5	1000		1300	1500	20	SMR7,5 823K250K03L4 BULK
0.10	5.0	11.0	10.5	7.5	1000		1300	1500	20	SMR7,5 104K250K03L4 BULK
0.12	6.0	12.0	10.5	7.5	1000		1000	1200	20	SMR7,5 124K250K04L4 BULK
0.15	6.0	12.0	10.5	7.5	1000		1000	1200	20	SMR7,5 154K250K04L4 BULK
LEAD SPACING 10 MM										
0.0027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 272K250A01L4 BULK
0.0033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 332K250A01L4 BULK
0.0039	4.0	9.0	13.0	10.0	1000		900		25	SMR10 392K250A01L4 BULK

ARTICLE TABLE

Capacitance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/μs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
250 VDC/160 VAC										
LEAD SPACING 10 MM										
0.0047	4.0	9.0	13.0	10.0	1000		900		25	SMR10 472K250A01L4 BULK
0.0056	4.0	9.0	13.0	10.0	1000		900		25	SMR10 562K250A01L4 BULK
0.0068	4.0	9.0	13.0	10.0	1000		900		25	SMR10 682K250A01L4 BULK
0.0082	4.0	9.0	13.0	10.0	1000		900		25	SMR10 822K250A01L4 BULK
0.010	4.0	9.0	13.0	10.0	1000		900		15	SMR10 103K250A01L4 BULK
0.012	4.0	9.0	13.0	10.0	1000		900		15	SMR10 123K250A01L4 BULK
0.015	4.0	9.0	13.0	10.0	1000		900		15	SMR10 153K250A01L4 BULK
0.018	4.0	9.0	13.0	10.0	1000		900		15	SMR10 183K250A01L4 BULK
0.022	4.0	9.0	13.0	10.0	1000		900		15	SMR10 223K250A01L4 BULK
0.027	4.0	9.0	13.0	10.0	1000		900		15	SMR10 273K250A01L4 BULK
0.033	4.0	9.0	13.0	10.0	1000		900		15	SMR10 333K250A01L4 BULK
0.039	4.0	9.0	13.0	10.0	1000		900		15	SMR10 393K250A01L4 BULK
0.047	4.0	9.0	13.0	10.0	1000		900		15	SMR10 473K250A01L4 BULK
0.056	4.0	9.0	13.0	10.0	1000		900		15	SMR10 563K250A01L4 BULK
0.068	4.0	9.0	13.0	10.0	1000		900		15	SMR10 683K250A01L4 BULK
0.082	4.5	10.5	13.0	10.0	1000		800		15	SMR10 823K250A02L4 BULK
0.10	4.5	10.5	13.0	10.0	1000		800		15	SMR10 104K250A02L4 BULK
0.12	5.0	11.0	13.0	10.0	800		700		15	SMR10 124K250A03L4 BULK
0.15	6.0	12.0	13.0	10.0	600		500		15	SMR10 154K250A04L4 BULK
0.18	6.0	12.0	13.0	10.0	600		500		15	SMR10 184K250A04L4 BULK
LEAD SPACING 15 MM										
0.10	5.5	10.5	18.0	15.0	1000		600		10	SMR15 104K250B04L4 BULK
0.12	5.5	10.5	18.0	15.0	1000		600		10	SMR15 124K250B04L4 BULK
0.15	5.5	10.5	18.0	15.0	1000		600		10	SMR15 154K250B04L4 BULK
0.18	5.5	12.5	18.0	15.0	1000		600		10	SMR15 184K250B05L4 BULK
0.22	6.5	12.5	18.0	15.0	1000		500		10	SMR15 224K250B10L4 BULK
0.27	7.5	14.5	18.0	15.0	800		400		10	SMR15 274K250B06L4 BULK
0.33	7.5	14.5	18.0	15.0	800		400		10	SMR15 334K250B06L4 BULK
0.39	8.0	15.0	18.0	15.0	600		400		10	SMR15 394K250B12L4 BULK
0.47	8.5	16.0	18.0	15.0	600		400		10	SMR15 474K250B11L4 BULK
0.56	9.5	17.5	18.0	15.0	500		350		10	SMR15 564K250B14L4 BULK
LEAD SPACING 22.5 MM										
0.47	6.5	14.5	26.0	22.5		234			8	SMR22.5 474K250D13L4 TRAY
0.56	7.0	16.5	26.0	22.5		216			8	SMR22.5 564K250D17L4 TRAY
0.68	7.0	16.5	26.0	22.5		216			8	SMR22.5 684K250D17L4 TRAY
0.82	9.0	18.5	26.0	22.5		168			8	SMR22.5 824K250D15L4 TRAY
1.0	9.0	18.5	26.0	22.5		168			8	SMR22.5 105K250D15L4 TRAY
1.2	10.5	19.0	26.0	22.5		264			8	SMR22.5 125K250D18L4 TRAY
1.5	11.0	21.5	26.0	22.5		253			8	SMR22.5 155K250D16L4 TRAY
LEAD SPACING 27.5 MM										
1.5	10.5	20.5	31.5	27.5		216			6	SMR27,5 155K250F11L4 TRAY
1.8	10.5	20.5	31.5	27.5		216			6	SMR27,5 185K250F11L4 TRAY
2.2	11.5	22.5	31.5	27.5		198			6	SMR27,5 225K250F12L4 TRAY
2.7	14.5	24.5	31.5	27.5		153			6	SMR27,5 275K250F13L4 TRAY
3.3	17.5	28.0	31.5	27.5		126			6	SMR27,5 335K250F14L4 TRAY
3.9	17.5	28.0	31.5	27.5		126			6	SMR27,5 395K250F14L4 TRAY
400 VDC/200 VAC										
LEAD SPACING 5 MM										
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 102K400J01L4 BULK
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 122K400J01L4 BULK
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 152K400J01L4 BULK

ARTICLE TABLE

Capaci- tance µF	Max dimensions in mm				Quantity per package			Max	dU/dt V/µs	Article code		
	B	H	L	p	Bulk	Tray	Reel	Ammo				
400 VDC/200 VAC												
LEAD SPACING 5 MM												
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 182K400J01L4 BULK		
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 222K400J01L4 BULK		
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 272K400J01L4 BULK		
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 332K400J01L4 BULK		
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	40	SMR5 392K400J01L4 BULK		
0.0047	3.5	8.0	7.2	5.0	2000		2000	2000	40	SMR5 472K400J02L4 BULK		
0.0056	3.5	8.0	7.2	5.0	2000		2000	2000	40	SMR5 562K400J02L4 BULK		
0.0068	3.5	8.0	7.2	5.0	2000		2000	2000	40	SMR5 682K400J02L4 BULK		
0.0082	3.5	8.0	7.2	5.0	2000		2000	2000	40	SMR5 822K400J02L4 BULK		
0.010	3.5	8.0	7.2	5.0	2000		2000	2000	40	SMR5 103K400J02L4 BULK		
0.012	3.5	8.0	7.2	5.0	2000		2000	2000	40	SMR5 123K400J02L4 BULK		
0.015	4.5	9.0	7.2	5.0	1000		1500	1700	40	SMR5 153K400J03L4 BULK		
0.018	4.5	9.0	7.2	5.0	1000		1500	1700	40	SMR5 183K400J03L4 BULK		
0.022	5.0	10.0	7.2	5.0	1000		1300	1500	40	SMR5 223K400J04L4 BULK		
0.027	5.0	10.0	7.2	5.0	1000		1300	1500	40	SMR5 273K400J04L4 BULK		
0.033	6.0	11.0	7.2	5.0	1000		1000	1200	40	SMR5 333K400J05L4 BULK		
0.039	6.0	11.0	7.2	5.0	1000		1000	1200	40	SMR5 393K400J05L4 BULK		
0.047	7.2	13.0	7.2	5.0	1000		800		40	SMR5 473K400J06L4 BULK		
0.056	7.2	13.0	7.2	5.0	1000		800		40	SMR5 563K400J06L4 BULK		
LEAD SPACING 7.5 MM												
0.0010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 102K400K01L4BULK		
0.0012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 122K400K01L4BULK		
0.0015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 152K400K01L4BULK		
0.0018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 182K400K01L4BULK		
0.0022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 222K400K01L4BULK		
0.0027	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 272K400K01L4BULK		
0.0033	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 332K400K01L4BULK		
0.0039	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 392K400K01L4BULK		
0.0047	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 472K400K01L4BULK		
0.0056	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 562K400K01L4BULK		
0.0068	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 682K400K01L4BULK		
0.0082	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 822K400K01L4BULK		
0.010	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 103K400K01L4BULK		
0.012	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 123K400K01L4BULK		
0.015	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 153K400K01L4BULK		
0.018	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 183K400K01L4BULK		
0.022	4.0	8.0	10.0	7.5	1000		1700	1900	30	SMR7,5 223K400K01L4BULK		
0.027	5.0	11.0	10.5	7.5	1000		1300	1500	30	SMR7,5 273K400K03L4BULK		
0.033	5.0	11.0	10.5	7.5	1000		1300	1500	30	SMR7,5 333K400K03L4BULK		
0.039	5.0	11.0	10.5	7.5	1000		1300	1500	30	SMR7,5 393K400K03L4BULK		
0.047	5.0	11.0	10.5	7.5	1000		1300	1500	30	SMR7,5 473K400K03L4BULK		
0.056	6.0	12.0	10.5	7.5	1000		1000	1200	30	SMR7,5 563K400K04L4BULK		
0.068	6.0	12.0	10.5	7.5	1000		1000	1200	30	SMR7,5 683K400K04L4BULK		
LEAD SPACING 10 MM												
0.0027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 272K400A01L4BULK		
0.0033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 332K400A01L4BULK		
0.0039	4.0	9.0	13.0	10.0	1000		900		25	SMR10 392K400A01L4BULK		
0.0047	4.0	9.0	13.0	10.0	1000		900		25	SMR10 472K400A01L4BULK		
0.0068	4.0	9.0	13.0	10.0	1000		900		25	SMR10 682K400A01L4BULK		
0.0082	4.0	9.0	13.0	10.0	1000		900		25	SMR10 822K400A01L4BULK		
0.010	4.0	9.0	13.0	10.0	1000		900		25	SMR10 103K400A01L4BULK		
0.012	4.0	9.0	13.0	10.0	1000		900		25	SMR10 123K400A01L4BULK		
0.015	4.0	9.0	13.0	10.0	1000		900		25	SMR10 153K400A01L4BULK		
0.018	4.0	9.0	13.0	10.0	1000		900		25	SMR10 183K400A01L4BULK		
0.022	4.0	9.0	13.0	10.0	1000		900		25	SMR10 223K400A01L4BULK		
0.027	4.0	9.0	13.0	10.0	1000		900		25	SMR10 273K400A01L4BULK		
0.033	4.0	9.0	13.0	10.0	1000		900		25	SMR10 333K400A01L4BULK		

ARTICLE TABLE

Capaci- tance μF	Max dimensions in mm				Quantity per package			Max	dU/dt V/μs	Article code
	B	H	L	p	Bulk	Tray	Reel	Ammo		
400 VDC/200 VAC										
LEAD SPACING 10 MM										
0.039	4.5	10.5	13.0	10.0	1000		800		25	SMR10 393K400A02L4BULK
0.047	5.0	11.0	13.0	10.0	800		700		25	SMR10 473K400A03L4BULK
0.056	5.0	11.0	13.0	10.0	800		700		25	SMR10 563K400A03L4BULK
0.068	6.0	12.0	13.0	10.0	600		500		25	SMR10 683K400A04L4BULK
0.082	6.0	12.0	13.0	10.0	600		500		25	SMR10 823K400A04L4BULK
LEAD SPACING 15 MM										
0.047	5.5	10.5	18.0	15.0	1000		600		15	SMR15 473K400B04L4BULK
0.056	5.5	10.5	18.0	15.0	1000		600		15	SMR15 563K400B04L4BULK
0.068	5.5	10.5	18.0	15.0	1000		600		15	SMR15 683K400B04L4BULK
0.082	5.5	12.5	18.0	15.0	1000		600		15	SMR15 823K400B05L4BULK
0.10	6.5	12.5	18.0	15.0	1000		500		15	SMR15 104K400B10L4BULK
0.12	7.5	14.5	18.0	15.0	800		400		15	SMR15 124K400B06L4BULK
0.15	7.5	14.5	18.0	15.0	800		400		15	SMR15 154K400B06L4BULK
0.18	8.0	15.0	18.0	15.0	600		400		15	SMR15 184K400B12L4BULK
0.22	8.5	16.0	18.0	15.0	600		400		15	SMR15 224K400B11L4BULK
0.27	9.5	17.5	18.0	15.0	500		350		15	SMR15 274K400B14L4BULK
LEAD SPACING 22.5 MM										
0.15	6.5	14.5	26.0	22.5		234			10	SMR22,5 154K400D13L4TRAY
0.18	6.5	14.5	26.0	22.5		234			10	SMR22,5 184K400D13L4TRAY
0.22	6.5	14.5	26.0	22.5		234			10	SMR22,5 224K400D13L4TRAY
0.27	7.0	16.5	26.0	22.5		216			10	SMR22,5 274K400D17L4TRAY
0.33	8.0	16.0	26.0	22.5		186			10	SMR22,5 334K400D14L4TRAY
0.39	9.0	18.5	26.0	22.5		168			10	SMR22,5 394K400D15L4TRAY
0.47	9.0	18.5	26.0	22.5		168			10	SMR22,5 474K400D15L4TRAY
0.56	10.5	19.0	26.0	22.5		264			10	SMR22,5 564K400D18L4TRAY
0.68	11.0	21.5	26.0	22.5		253			10	SMR22,5 684K400D16L4TRAY
LEAD SPACING 27.5 MM										
0.47	10.5	20.5	31.5	27.5		216			8	SMR27,5 474K400F11L4TRAY
0.56	10.5	20.5	31.5	27.5		216			8	SMR27,5 564K400F11L4TRAY
0.68	10.5	20.5	31.5	27.5		216			8	SMR27,5 684K400F11L4TRAY
0.82	11.5	22.5	31.5	27.5		198			8	SMR27,5 824K400F12L4TRAY
1.0	11.5	22.5	31.5	27.5		198			8	SMR27,5 105K400F12L4TRAY
1.2	14.5	24.5	31.5	27.5		153			8	SMR27,5 125K400F13L4TRAY
1.5	17.5	28.0	31.5	27.5		126			8	SMR27,5 155K400F14L4TRAY
1.8	17.5	28.0	31.5	27.5		126			8	SMR27,5 185K400F14L4TRAY

ORDERING INFORMATION

See article table and pages 18 to 23 for options and article code construction.
The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2x the given quantity.

MARKING

- Capacitance
- Tolerance code
- Rated voltage
- Capacitor family code SMR
- Manufacturing date code