

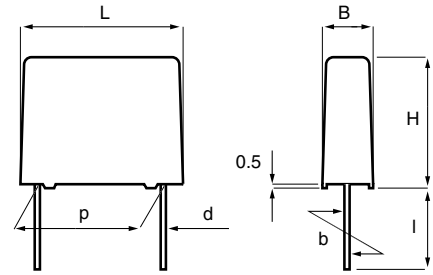
- Metallized polyphenylene sulfide
- Stable +150 °C high temperature capacitor

TYPICAL APPLICATIONS

Automotive and other applications with high ambient temperatures. Applications requiring high stability and low losses. Offers excellent sound quality in audio applications.

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

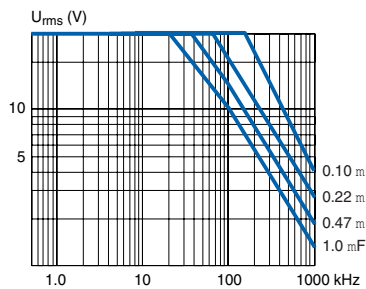
	50	63	100	250	400
Rated voltage U_R, VDC	50	63	100	250	400
Rated voltage U_R, VAC	30	40	63	160	200
Capacitance, μF	0.001	0.001	0.001	0.001	0.001
	- 22	- 22	- 12	- 3.9	- 1.8
Capacitance tolerance	$\pm 20\%$, $\pm 10\%$, $\pm 5\%$, $\pm 2.5\%$				
Category temperature range	-55 ... +150°C				
Rated temperature	-55 ... +125 °C				
Voltage derating	From +125°C, the voltage derating is 2%/°C.				
Climatic category	IEC 60068-1, 55/150/56 DIN 40040, FKD				
Test voltage	1.6 x U_R for 2s.				
Reliability	Operational life > 200 000 h. Failure rate < 3 FIT, T = +40°C, U = 0.5 x U_R . Failure criteria according to DIN 44122.				
Capacitance drift	Max. 0.3% after a 2 year storage period at a temperature of +10° ... +40°C and a relative humidity of 40 ... 60 %.				
Dissipation factor $\tan\delta$	Maximum values at +23°C				
		$C \leq 0.1\mu\text{F}$	$0.1\mu\text{F} < C \leq 1.0\mu\text{F}$	$C > 1.0\mu\text{F}$	
SMR5	1 kHz	0.15 %	0.15 %	0.15 %	
	10 kHz	0.25 %	0.25 %	0.35 %	
	100 kHz	0.50 %	0.60 %		
SMR7.5...27.5	1 kHz	0.15 %	0.15 %	0.15 %	
	10 kHz	0.25 %	0.25 %		
	100 kHz	0.60 %			
Insulation resistance	Minimum values between terminals. Measured at +20°C, according to IEC 60384-1				
		$C \leq 0.33 \mu\text{F}$	$C > 0.33 \mu\text{F}$		
	$U_R \leq 100 \text{ V}$	15 000 M Ω	5 000 s		
	$U_R > 100 \text{ V}$	30 000 M Ω	10 000 s		

p	d	std I	max I	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

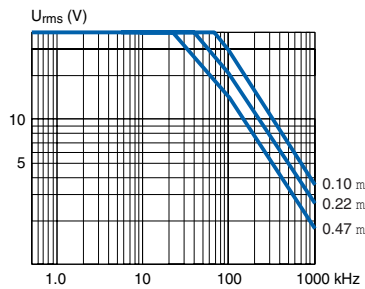
ENVIRONMENTAL TEST DATA

Damp heat test	Test conditions:	T = +40°C, RH = 93%, t = 56 days.
	Test criteria:	$\Delta C/C \leq \pm 3\%$, $\Delta \tan\delta \leq 0.0025$ (1kHz) IR after test 0.5 x IR min.
Endurance test	Test conditions:	T = +125°C, U = 1.25 x (0.5 x U_R), t = 2000 h.
	Test criteria:	$\Delta C/C \leq \pm 3\%$, $\Delta \tan\delta \leq 0.002$ (1kHz), C > 1 μF $\Delta \tan\delta \leq 0.003$ (10kHz), C $\leq 1 \mu\text{F}$ IR after test 0.5 x IR min.

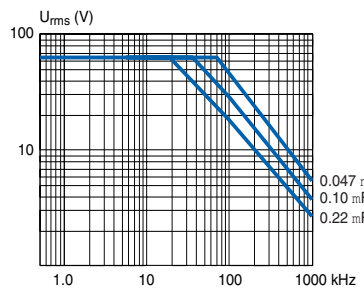
DERATING OF U_{RMS} VS FREQUENCY, +100°C AMBIENT TEMPERATURE AND 20°C INTERNAL HEATING, TYPICAL VALUES



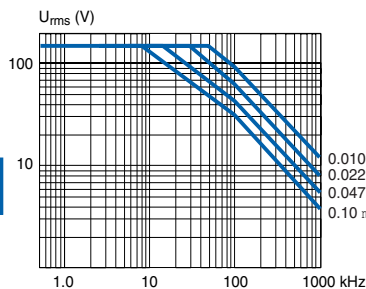
SMR5 50/30



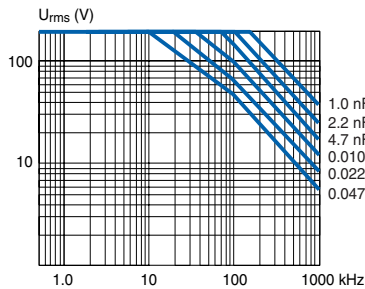
SMR5 63/40



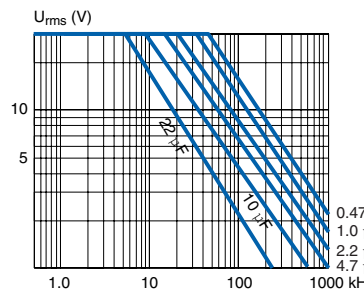
SMR5 100/63



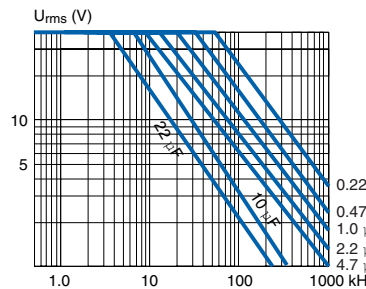
SMR5 250/160



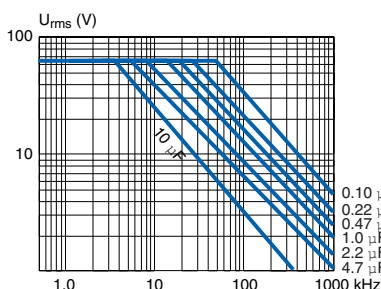
SMR5 400/200



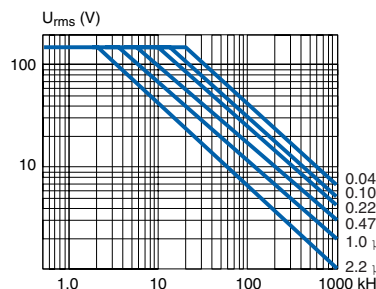
SMR7.5 ... 27.5 50/30



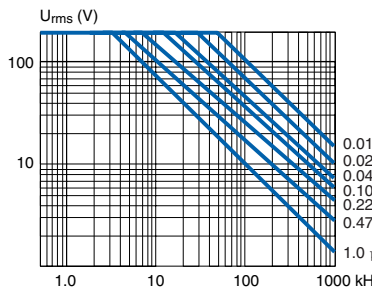
SMR7.5 ... 27.5 63/40



SMR7.5 ... 27.5 100/63



SMR7.5 ... 27.5 250/160



SMR7.5 ... 27.5 400/200

ORDERING INFORMATION

See article table and pages 10 to 14 for options and article code construction.

MARKING

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

ARTICLE TABLE

Capacitance µF	Box code	Max dimensions in mm			Max dU/dt V/µs	Article code	Capacitance µF	Box code	Max dimensions in mm			Max dU/dt V/µs	Article code
		B	H	L					B	H	L		
50 VDC/30 VAC						63 VDC/40 VAC							
LEAD SPACING 15 MM						LEAD SPACING 7.5 MM							
2.2	B10	6.5	12.5	18.0	6	SMR15 225K50B10L4BULK	0.0010	K01	4.0	8.0	10.0	30	SMR7.5 102K63K01L4 BULK
2.7	B06	7.5	14.5	18.0	6	SMR15 275K50B06L4BULK	0.0012	K01	4.0	8.0	10.0	30	SMR7.5 122K63K01L4 BULK
3.3	B06	7.5	14.5	18.0	6	SMR15 335K50B06L4BULK	0.0015	K01	4.0	8.0	10.0	30	SMR7.5 152K63K01L4 BULK
3.9	B12	8.0	15.0	18.0	6	SMR15 395K50B12L4BULK	0.0018	K01	4.0	8.0	10.0	30	SMR7.5 182K63K01L4 BULK
4.7	B14	9.5	17.5	18.0	6	SMR15 475K50B14L4BULK	0.0022	K01	4.0	8.0	10.0	30	SMR7.5 222K63K01L4 BULK
5.6	B14	9.5	17.5	18.0	6	SMR15 565K50B14L4BULK	0.0027	K01	4.0	8.0	10.0	30	SMR7.5 272K63K01L4 BULK
LEAD SPACING 22.5 MM						LEAD SPACING 7.5 MM							
6.8	D14	8.0	16.0	26.0	3	SMR22.5 685K50D14L4TRAY	0.0033	K01	4.0	8.0	10.0	30	SMR7.5 332K63K01L4 BULK
8.2	D15	9.0	18.5	26.0	3	SMR22.5 825K50D15L4TRAY	0.0039	K01	4.0	8.0	10.0	30	SMR7.5 392K63K01L4 BULK
10.0	D18	10.5	19.0	26.0	3	SMR22.5 106K50D18L4TRAY	0.0047	K01	4.0	8.0	10.0	30	SMR7.5 472K63K01L4 BULK
12.0	D16	11.0	21.5	26.0	3	SMR22.5 126K50D16L4TRAY	0.0056	K01	4.0	8.0	10.0	30	SMR7.5 562K63K01L4 BULK
LEAD SPACING 27.5 MM						LEAD SPACING 7.5 MM							
15.0	F11	10.5	20.5	31.5	2	SMR27.5 156K50F11L4TRAY	0.0068	K01	4.0	8.0	10.0	30	SMR7.5 682K63K01L4 BULK
18.0	F12	11.5	22.5	31.5	2	SMR27.5 186K50F12L4TRAY	0.0082	K01	4.0	8.0	10.0	30	SMR7.5 822K63K01L4 BULK
22.0	F13	14.5	24.5	31.5	2	SMR27.5 226K50F13L4TRAY	0.010	K01	4.0	8.0	10.0	30	SMR7.5 103K63K01L4 BULK
63 VDC/40 VAC						LEAD SPACING 7.5 MM							
LEAD SPACING 5 MM						LEAD SPACING 7.5 MM							
0.0010	J01	2.5	6.5	7.2	40	SMR5 102K63J01L4 BULK	0.012	K01	4.0	8.0	10.0	30	SMR7.5 123K63K01L4 BULK
0.0012	J01	2.5	6.5	7.2	40	SMR5 122K63J01L4 BULK	0.015	K01	4.0	8.0	10.0	30	SMR7.5 153K63K01L4 BULK
0.0015	J01	2.5	6.5	7.2	40	SMR5 152K63J01L4 BULK	0.018	K01	4.0	8.0	10.0	30	SMR7.5 183K63K01L4 BULK
0.0018	J01	2.5	6.5	7.2	40	SMR5 182K63J01L4 BULK	0.022	K01	4.0	8.0	10.0	30	SMR7.5 223K63K01L4 BULK
0.0022	J01	2.5	6.5	7.2	40	SMR5 222K63J01L4 BULK	0.027	K01	4.0	8.0	10.0	20	SMR7.5 273K63K01L4 BULK
0.0027	J01	2.5	6.5	7.2	40	SMR5 272K63J01L4 BULK	0.033	K01	4.0	8.0	10.0	20	SMR7.5 333K63K01L4 BULK
0.0033	J01	2.5	6.5	7.2	40	SMR5 332K63J01L4 BULK	0.039	K01	4.0	8.0	10.0	20	SMR7.5 393K63K01L4 BULK
0.0039	J01	2.5	6.5	7.2	40	SMR5 392K63J01L4 BULK	0.047	K01	4.0	8.0	10.0	20	SMR7.5 473K63K01L4 BULK
0.0047	J01	2.5	6.5	7.2	20	SMR5 472K63J01L4 BULK	0.056	K01	4.0	8.0	10.0	15	SMR7.5 563K63K01L4 BULK
0.0056	J01	2.5	6.5	7.2	20	SMR5 562K63J01L4 BULK	0.068	K01	4.0	8.0	10.0	15	SMR7.5 683K63K01L4 BULK
0.0068	J01	2.5	6.5	7.2	20	SMR5 682K63J01L4 BULK	0.082	K01	4.0	8.0	10.0	15	SMR7.5 823K63K01L4 BULK
0.0082	J01	2.5	6.5	7.2	20	SMR5 822K63J01L4 BULK	0.10	K01	4.0	8.0	10.0	15	SMR7.5 104K63K01L4 BULK
0.010	J01	2.5	6.5	7.2	20	SMR5 103K63J01L4 BULK	0.12	K01	4.0	8.0	10.0	15	SMR7.5 124K63K01L4 BULK
0.012	J01	2.5	6.5	7.2	15	SMR5 123K63J01L4 BULK	0.15	K01	4.0	8.0	10.0	10	SMR7.5 154K63K01L4 BULK
0.015	J01	2.5	6.5	7.2	15	SMR5 153K63J01L4 BULK	0.18	K01	4.0	8.0	10.0	10	SMR7.5 184K63K01L4 BULK
0.018	J01	2.5	6.5	7.2	15	SMR5 183K63J01L4 BULK	0.22	K01	4.0	8.0	10.0	10	SMR7.5 224K63K01L4 BULK
0.022	J01	2.5	6.5	7.2	15	SMR5 223K63J01L4 BULK	0.27	K01	4.0	8.0	10.0	10	SMR7.5 274K63K01L4 BULK
0.027	J01	2.5	6.5	7.2	15	SMR5 273K63J01L4 BULK	0.33	K03	5.0	11.0	10.0	10	SMR7.5 334K63K03L4 BULK
0.033	J01	2.5	6.5	7.2	15	SMR5 333K63J01L4 BULK	0.39	K03	5.0	11.0	10.0	10	SMR7.5 394K63K03L4 BULK
0.039	J01	2.5	6.5	7.2	15	SMR5 393K63J01L4 BULK	0.47	K03	5.0	11.0	10.0	10	SMR7.5 474K63K03L4 BULK
0.047	J01	2.5	6.5	7.2	6	SMR5 473K63J01L4 BULK	0.56	K03	5.0	11.0	10.0	10	SMR7.5 564K63K03L4 BULK
0.056	J01	2.5	6.5	7.2	6	SMR5 563K63J01L4 BULK	0.68	K04	6.0	12.0	10.5	10	SMR7.5 684K63K04L4 BULK
0.068	J01	2.5	6.5	7.2	6	SMR5 683K63J01L4 BULK	0.82	K04	6.0	12.0	10.5	10	SMR7.5 824K63K04L4 BULK
0.082	J02	3.5	8.0	7.2	6	SMR5 823K63J02L4 BULK	LEAD SPACING 10 MM						
0.10	J02	3.5	8.0	7.2	6	SMR5 104K63J02L4 BULK	0.0027	A01	4.0	9.0	13.0	25	SMR10 272K63A01L4 BULK
0.12	J02	3.5	8.0	7.2	6	SMR5 124K63J02L4 BULK	0.0033	A01	4.0	9.0	13.0	25	SMR10 332K63A01L4 BULK
0.15	J02	3.5	8.0	7.2	6	SMR5 154K63J02L4 BULK	0.0039	A01	4.0	9.0	13.0	25	SMR10 392K63A01L4 BULK
0.18	J03	4.5	9.0	7.2	6	SMR5 184K63J03L4 BULK	0.0047	A01	4.0	9.0	13.0	25	SMR10 472K63A01L4 BULK
0.22	J03	4.5	9.0	7.2	6	SMR5 224K63J03L4 BULK	0.0056	A01	4.0	9.0	13.0	25	SMR10 562K63A01L4 BULK
0.27	J04	5.0	10.0	7.2	6	SMR5 274K63J04L4 BULK	0.0068	A01	4.0	9.0	13.0	25	SMR10 682K63A01L4 BULK
0.33	J04	5.0	10.0	7.2	6	SMR5 334K63J04L4 BULK	0.0082	A01	4.0	9.0	13.0	25	SMR10 822K63A01L4 BULK
0.39	J05	6.0	11.0	7.2	6	SMR5 394K63J05L4 BULK	0.010	A01	4.0	9.0	13.0	25	SMR10 103K63A01L4 BULK
0.47	J05	6.0	11.0	7.2	6	SMR5 474K63J05L4 BULK	0.012	A01	4.0	9.0	13.0	25	SMR10 123K63A01L4 BULK
0.56	J06	7.2	13.0	7.2	6	SMR5 564K63J06L4 BULK	0.015	A01	4.0	9.0	13.0	25	SMR10 153K63A01L4 BULK
0.68	J06	7.2	13.0	7.2	6	SMR5 684K63J06L4 BULK	0.018	A01	4.0	9.0	13.0	25	SMR10 183K63A01L4 BULK
							0.022	A01	4.0	9.0	13.0	25	SMR10 223K63A01L4 BULK
							0.027	A01	4.0	9.0	13.0	25	SMR10 273K63A01L4 BULK
							0.033	A01	4.0	9.0	13.0	25	SMR10 333K63A01L4 BULK
							0.039	A01	4.0	9.0	13.0	15	SMR10 393K63A01L4 BULK
							0.047	A01	4.0	9.0	13.0	15	SMR10 473K63A01L4 BULK
							0.056	A01	4.0	9.0	13.0	15	SMR10 563K63A01L4 BULK
							0.068	A01	4.0	9.0	13.0	15	SMR10 683K63A01L4 BULK
							0.082	A01	4.0	9.0	13.0	10	SMR10 823K63A01L4 BULK
							0.10	A01	4.0	9.0	13.0	10	SMR10 104K63A01L4 BULK
							0.12	A01	4.0	9.0	13.0	10	SMR10 124K63A01L4 BULK
							0.15	A01	4.0	9.0	13.0	10	SMR10 154K63A01L4 BULK

ARTICLE TABLE

Capacitance μF	Box code	Max dimensions in mm			Max dU/dt V/ μs	Article code		Capacitance μF	Box code	Max dimensions in mm			Max dU/dt V/ μs	Article code
		B	H	L						B	H	L		
63 VDC/40 VAC							100 VDC/63 VAC							
LEAD SPACING 10MM							LEAD SPACING 5 MM							
0.18	A01	4.0	9.0	13.0	10	SMR10 184K63A01L4 BULK	0.015	J01	2.5	6.5	7.2	15	SMR5 153K100J01L4 BULK	
0.22	A01	4.0	9.0	13.0	10	SMR10 224K63A01L4 BULK	0.018	J01	2.5	6.5	7.2	15	SMR5 183K100J01L4 BULK	
0.27	A01	4.0	9.0	13.0	8	SMR10 274K63A01L4 BULK	0.022	J01	2.5	6.5	7.2	15	SMR5 223K100J01L4 BULK	
0.33	A01	4.0	9.0	13.0	8	SMR10 334K63A01L4 BULK	0.027	J01	2.5	6.5	7.2	15	SMR5 273K100J01L4 BULK	
0.39	A01	4.0	9.0	13.0	8	SMR10 394K63A01L4 BULK	0.033	J01	2.5	6.5	7.2	15	SMR5 333K100J01L4 BULK	
0.47	A02	4.5	10.5	13.0	8	SMR10 474K63A02L4 BULK	0.039	J01	2.5	6.5	7.2	15	SMR5 393K100J01L4 BULK	
0.56	A02	4.5	10.5	13.0	8	SMR10 564K63A02L4 BULK	0.047	J02	3.5	8.0	7.2	15	SMR5 473K100J02L4 BULK	
0.68	A03	5.0	11.0	13.0	8	SMR10 684K63A03L4 BULK	0.056	J03	4.5	9.0	7.2	15	SMR5 563K100J03L4 BULK	
0.82	A04	6.0	12.0	13.0	8	SMR10 824K63A04L4 BULK	0.068	J03	4.5	9.0	7.2	15	SMR5 683K100J03L4 BULK	
1.0	A04	6.0	12.0	13.0	8	SMR10 105K63A04L4 BULK	0.082	J03	4.5	9.0	7.2	15	SMR5 823K100J03L4 BULK	
LEAD SPACING 15 MM							LEAD SPACING 7.5 MM							
0.68	B04	5.5	10.5	18.0	8	SMR15 684K63B04L4 BULK	0.010	K01	4.0	8.0	10.0	30	SMR7.5 102K100K01L4 BULK	
0.82	B04	5.5	10.5	18.0	8	SMR15 824K63B04L4 BULK	0.012	K01	4.0	8.0	10.0	30	SMR7.5 122K100K01L4 BULK	
1.0	B05	5.5	12.5	18.0	8	SMR15 105K63B05L4 BULK	0.015	K01	4.0	8.0	10.0	30	SMR7.5 152K100K01L4 BULK	
1.2	B10	6.5	12.5	18.0	6	SMR15 125K63B10L4 BULK	0.018	K01	4.0	8.0	10.0	30	SMR7.5 182K100K01L4 BULK	
1.5	B10	6.5	12.5	18.0	6	SMR15 155K63B10L4 BULK	0.022	K01	4.0	8.0	10.0	30	SMR7.5 222K100K01L4 BULK	
1.8	B06	7.5	14.5	18.0	6	SMR15 185K63B06L4 BULK	0.027	K01	4.0	8.0	10.0	30	SMR7.5 272K100K01L4 BULK	
2.2	B12	8.0	15.0	18.0	6	SMR15 225K63B12L4 BULK	0.033	K01	4.0	8.0	10.0	30	SMR7.5 332K100K01L4 BULK	
2.7	B11	8.5	16.0	18.0	6	SMR15 275K63B11L4 BULK	0.039	K01	4.0	8.0	10.0	30	SMR7.5 392K100K01L4 BULK	
3.3	B14	9.5	17.5	18.0	6	SMR15 335K63B14L4 BULK	0.047	K01	4.0	8.0	10.0	30	SMR7.5 472K100K01L4 BULK	
LEAD SPACING 22.5 MM							LEAD SPACING 10 MM							
2.7	D13	6.5	14.5	26.0	3	SMR22.5 275K63D13L4 TRAY	0.0027	A01	4.0	9.0	13.0	25	SMR10 272K100A01L4 BULK	
3.3	D17	7.0	16.5	26.0	3	SMR22.5 335K63D17L4 TRAY	0.0033	A01	4.0	9.0	13.0	25	SMR10 332K100A01L4 BULK	
3.9	D14	8.0	16.0	26.0	3	SMR22.5 395K63D14L4 TRAY	0.0039	A01	4.0	9.0	13.0	25	SMR10 392K100A01L4 BULK	
4.7	D15	9.0	18.5	26.0	3	SMR22.5 475K63D15L4 TRAY	0.0047	A01	4.0	9.0	13.0	25	SMR10 472K100A01L4 BULK	
5.6	D15	9.0	18.5	26.0	3	SMR22.5 565K63D15L4 TRAY								
6.8	D18	10.5	19.0	26.0	3	SMR22.5 685K63D18L4 TRAY								
8.2	D16	11.0	21.5	26.0	3	SMR22.5 825K63D16L4 TRAY								
LEAD SPACING 27.5 MM														
10.0	F12	11.5	22.5	31.5	2	SMR27.5 106K63F12L4 TRAY								
12.0	F13	14.5	24.5	31.5	2	SMR27.5 126K63F13L4 TRAY								
15.0	F13	14.5	24.5	31.5	2	SMR27.5 156K63F13L4 TRAY								
18.0	F14	17.5	28.0	31.5	2	SMR27.5 186K63F14L4 TRAY								
22.0	F14	17.5	28.0	31.5	2	SMR27.5 226K63F14L4 TRAY								
100 VDC/63 VAC														
LEAD SPACING 5 MM														
0.0010	J01	2.5	6.5	7.2	40	SMR5 102K100J01L4 BULK								
0.0012	J01	2.5	6.5	7.2	40	SMR5 122K100J01L4 BULK								
0.0015	J01	2.5	6.5	7.2	40	SMR5 152K100J01L4 BULK								
0.0018	J01	2.5	6.5	7.2	40	SMR5 182K100J01L4 BULK								
0.0022	J01	2.5	6.5	7.2	40	SMR5 222K100J01L4 BULK								
0.0027	J01	2.5	6.5	7.2	40	SMR5 272K100J01L4 BULK								
0.0033	J01	2.5	6.5	7.2	40	SMR5 332K100J01L4 BULK								
0.0039	J01	2.5	6.5	7.2	40	SMR5 392K100J01L4 BULK								
0.0047	J01	2.5	6.5	7.2	20	SMR5 472K100J01L4 BULK								
0.0056	J01	2.5	6.5	7.2	20	SMR5 562K100J01L4 BULK								
0.0068	J01	2.5	6.5	7.2	20	SMR5 682K100J01L4 BULK								
0.0082	J01	2.5	6.5	7.2	20	SMR5 822K100J01L4 BULK								
0.010	J01	2.5	6.5	7.2	20	SMR5 103K100J01L4 BULK								
0.012	J01	2.5	6.5	7.2	15	SMR5 123K100J01L4 BULK								

ARTICLE TABLE

Capaci- tance μF	Box code	Max dimen- sions in mm			Max dU/dt V/ μs	Article code							
		B	H	L			Capaci- tance μF	Box code	Max dimen- sions in mm			Max dU/dt V/ μs	Article code
100 VDC/63 VAC						250 VDC/160 VAC							
LEAD SPACING 10 MM						LEAD SPACING 5 MM							
0.0056	A01	4.0	9.0	13.0	25	SMR10 562K100A01L4 BULK	0.0010	J01	2.5	6.5	7.2	40	SMR5 102K250J01L4 BULK
0.0068	A01	4.0	9.0	13.0	25	SMR10 682K100A01L4 BULK	0.0012	J01	2.5	6.5	7.2	40	SMR5 122K250J01L4 BULK
0.0082	A01	4.0	9.0	13.0	25	SMR10 822K100A01L4 BULK	0.0015	J01	2.5	6.5	7.2	40	SMR5 152K250J01L4 BULK
0.010	A01	4.0	9.0	13.0	25	SMR10 103K100A01L4 BULK	0.0018	J01	2.5	6.5	7.2	40	SMR5 182K250J01L4 BULK
0.012	A01	4.0	9.0	13.0	25	SMR10 123K100A01L4 BULK	0.0022	J01	2.5	6.5	7.2	40	SMR5 222K250J01L4 BULK
0.015	A01	4.0	9.0	13.0	25	SMR10 153K100A01L4 BULK	0.0027	J01	2.5	6.5	7.2	40	SMR5 272K250J01L4 BULK
0.018	A01	4.0	9.0	13.0	25	SMR10 183K100A01L4 BULK	0.0033	J01	2.5	6.5	7.2	40	SMR5 332K250J01L4 BULK
0.022	A01	4.0	9.0	13.0	25	SMR10 223K100A01L4 BULK	0.0039	J01	2.5	6.5	7.2	40	SMR5 392K250J01L4 BULK
0.027	A01	4.0	9.0	13.0	25	SMR10 273K100A01L4 BULK	0.0047	J01	2.5	6.5	7.2	20	SMR5 472K250J01L4 BULK
0.033	A01	4.0	9.0	13.0	25	SMR10 333K100A01L4 BULK	0.0056	J01	2.5	6.5	7.2	20	SMR5 562K250J01L4 BULK
0.039	A01	4.0	9.0	13.0	15	SMR10 393K100A01L4 BULK	0.0068	J01	2.5	6.5	7.2	20	SMR5 682K250J01L4 BULK
0.047	A01	4.0	9.0	13.0	15	SMR10 473K100A01L4 BULK	0.0082	J01	2.5	6.5	7.2	20	SMR5 822K250J01L4 BULK
0.056	A01	4.0	9.0	13.0	15	SMR10 563K100A01L4 BULK	0.010	J01	2.5	6.5	7.2	20	SMR5 103K250J01L4 BULK
0.068	A01	4.0	9.0	13.0	15	SMR10 683K100A01L4 BULK	0.012	J01	2.5	6.5	7.2	20	SMR5 123K250J01L4 BULK
0.082	A01	4.0	9.0	13.0	10	SMR10 823K100A01L4 BULK	0.015	J02	3.5	8.0	7.2	20	SMR5 153K250J02L4 BULK
0.10	A01	4.0	9.0	13.0	10	SMR10 104K100A01L4 BULK	0.018	J02	3.5	8.0	7.2	20	SMR5 183K250J02L4 BULK
0.12	A01	4.0	9.0	13.0	10	SMR10 124K100A01L4 BULK	0.022	J02	3.5	8.0	7.2	20	SMR5 223K250J02L4 BULK
0.15	A01	4.0	9.0	13.0	10	SMR10 154K100A01L4 BULK	0.027	J02	3.5	8.0	7.2	20	SMR5 273K250J02L4 BULK
0.18	A01	4.0	9.0	13.0	10	SMR10 184K100A01L4 BULK	0.033	J03	4.5	9.0	7.2	20	SMR5 333K250J03L4 BULK
0.22	A01	4.0	9.0	13.0	10	SMR10 224K100A01L4 BULK	0.039	J03	4.5	9.0	7.2	20	SMR5 393K250J03L4 BULK
0.27	A02	4.5	10.5	13.0	10	SMR10 274K100A02L4 BULK	0.047	J03	4.5	9.0	7.2	20	SMR5 473K250J03L4 BULK
0.33	A03	5.0	11.0	13.0	10	SMR10 334K100A03L4 BULK	0.056	J04	5.0	10.0	7.2	20	SMR5 563K250J04L4 BULK
0.39	A03	5.0	11.0	13.0	10	SMR10 394K100A03L4 BULK	0.068	J05	6.0	11.0	7.2	20	SMR5 683K250J05L4 BULK
0.47	A04	6.0	12.0	13.0	10	SMR10 474K100A04L4 BULK	0.082	J05	6.0	11.0	7.2	20	SMR5 823K250J05L4 BULK
0.56	A04	6.0	12.0	13.0	10	SMR10 564K100A04L4 BULK	0.10	J06	7.2	13.0	7.2	20	SMR5 104K250J06L4 BULK
							0.12	J06	7.2	13.0	7.2	20	SMR5 124K250J06L4 BULK
LEAD SPACING 15 MM						LEAD SPACING 7.5 MM							
0.27	B04	5.5	10.5	18.0	8	SMR15 274K100B04L4 BULK	0.0010	K01	4.0	8.0	10.0	30	SMR7.5 102K250K01L4 BULK
0.33	B04	5.5	10.5	18.0	8	SMR15 334K100B04L4 BULK	0.0012	K01	4.0	8.0	10.0	30	SMR7.5 122K250K01L4 BULK
0.39	B04	5.5	10.5	18.0	8	SMR15 394K100B04L4 BULK	0.0015	K01	4.0	8.0	10.0	30	SMR7.5 152K250K01L4 BULK
0.47	B04	5.5	10.5	18.0	8	SMR15 474K100B04L4 BULK	0.0018	K01	4.0	8.0	10.0	30	SMR7.5 182K250K01L4 BULK
0.56	B05	5.5	12.5	18.0	8	SMR15 564K100B05L4 BULK	0.0022	K01	4.0	8.0	10.0	30	SMR7.5 222K250K01L4 BULK
0.68	B10	6.5	12.5	18.0	8	SMR15 684K100B10L4 BULK	0.0027	K01	4.0	8.0	10.0	30	SMR7.5 272K250K01L4 BULK
0.82	B06	7.5	14.5	18.0	8	SMR15 824K100B06L4 BULK	0.0033	K01	4.0	8.0	10.0	30	SMR7.5 332K250K01L4 BULK
1.0	B06	7.5	14.5	18.0	8	SMR15 105K100B06L4 BULK	0.0039	K01	4.0	8.0	10.0	30	SMR7.5 392K250K01L4 BULK
1.2	B12	8.0	15.0	18.0	8	SMR15 125K100B12L4 BULK	0.0047	K01	4.0	8.0	10.0	30	SMR7.5 472K250K01L4 BULK
1.5	B11	8.5	16.0	18.0	8	SMR15 155K100B11L4 BULK	0.0056	K01	4.0	8.0	10.0	30	SMR7.5 562K250K01L4 BULK
1.8	B14	9.5	17.5	18.0	8	SMR15 185K100B14L4 BULK	0.0068	K01	4.0	8.0	10.0	30	SMR7.5 682K250K01L4 BULK
							0.0082	K01	4.0	8.0	10.0	30	SMR7.5 822K250K01L4 BULK
LEAD SPACING 22.5 MM						0.010	K01	4.0	8.0	10.0	30	SMR7.5 103K250K01L4 BULK	
1.5	D13	6.5	14.5	26.0	4	SMR22.5 155K100D13L4 TRAY	0.012	K01	4.0	8.0	10.0	30	SMR7.5 123K250K01L4 BULK
1.8	D17	7.0	16.5	26.0	4	SMR22.5 185K100D17L4 TRAY	0.015	K01	4.0	8.0	10.0	30	SMR7.5 153K250K01L4 BULK
2.2	D14	8.0	16.0	26.0	4	SMR22.5 225K100D14L4 TRAY	0.018	K01	4.0	8.0	10.0	30	SMR7.5 183K250K01L4 BULK
2.7	D15	9.0	18.5	26.0	4	SMR22.5 275K100D15L4 TRAY	0.022	K01	4.0	8.0	10.0	30	SMR7.5 223K250K01L4 BULK
3.3	D18	10.5	19.0	26.0	4	SMR22.5 335K100D18L4 TRAY	0.027	K01	4.0	8.0	10.0	20	SMR7.5 273K250K01L4 BULK
3.9	D18	10.5	19.0	26.0	4	SMR22.5 395K100D18L4 TRAY	0.033	K01	4.0	8.0	10.0	20	SMR7.5 333K250K01L4 BULK
4.7	D16	11.0	21.5	26.0	4	SMR22.5 475K100D16L4 TRAY	0.039	K01	4.0	8.0	10.0	20	SMR7.5 393K250K01L4 BULK
							0.047	K01	4.0	8.0	10.0	20	SMR7.5 473K250K01L4 BULK
LEAD SPACING 27.5 MM						0.056	K03	5.0	11.0	10.0	20	SMR7.5 563K250K03L4 BULK	
5.6	F12	11.5	22.5	31.5	3	SMR27.5 565K100F12L4 TRAY	0.068	K03	5.0	11.0	10.0	20	SMR7.5 683K250K03L4 BULK
6.8	F13	14.5	24.5	31.5	3	SMR27.5 685K100F13L4 TRAY	0.082	K03	5.0	11.0	10.0	20	SMR7.5 823K250K03L4 BULK
8.2	F13	14.5	24.5	31.5	3	SMR27.5 825K100F13L4 TRAY	0.10	K03	5.0	11.0	10.0	20	SMR7.5 104K250K03L4 BULK
10.0	F14	17.5	28.0	31.5	3	SMR27.5 106K100F14L4 TRAY	0.12	K04	6.0	12.0	10.5	20	SMR7.5 124K250K04L4 BULK
12.0	F14	17.5	28.0	31.5	3	SMR27.5 126K100F14L4 TRAY	0.15	K04	6.0	12.0	10.5	20	SMR7.5 154K250K04L4 BULK

ARTICLE TABLE

Capacitance μF	Box code	Max dimensions in mm			Max dU/dt $\text{V}/\mu\text{s}$	Article code		Capacitance μF	Box code	Max dimensions in mm			Max dU/dt $\text{V}/\mu\text{s}$	Article code
		B	H	L						B	H	L		
250 VDC/160 VAC							400 VDC/200 VAC							
LEAD SPACING 10 MM							LEAD SPACING 5 MM							
0.0027	A01	4.0	9.0	13.0	25	SMR10 272K250A01L4 BULK	0.0010	J01	2.5	6.5	7.2	40	SMR5 102K400J01L4 BULK	
0.0033	A01	4.0	9.0	13.0	25	SMR10 332K250A01L4 BULK	0.0012	J01	2.5	6.5	7.2	40	SMR5 122K400J01L4 BULK	
0.0039	A01	4.0	9.0	13.0	25	SMR10 392K250A01L4 BULK	0.0015	J01	2.5	6.5	7.2	40	SMR5 152K400J01L4 BULK	
0.0047	A01	4.0	9.0	13.0	25	SMR10 472K250A01L4 BULK	0.0018	J01	2.5	6.5	7.2	40	SMR5 182K400J01L4 BULK	
0.0056	A01	4.0	9.0	13.0	25	SMR10 562K250A01L4 BULK	0.0022	J01	2.5	6.5	7.2	40	SMR5 222K400J01L4 BULK	
0.0068	A01	4.0	9.0	13.0	25	SMR10 682K250A01L4 BULK	0.0027	J01	2.5	6.5	7.2	40	SMR5 272K400J01L4 BULK	
0.0082	A01	4.0	9.0	13.0	25	SMR10 822K250A01L4 BULK	0.0033	J01	2.5	6.5	7.2	40	SMR5 332K400J01L4 BULK	
0.010	A01	4.0	9.0	13.0	15	SMR10 103K250A01L4 BULK	0.0039	J01	2.5	6.5	7.2	40	SMR5 392K400J01L4 BULK	
0.012	A01	4.0	9.0	13.0	15	SMR10 123K250A01L4 BULK	0.0047	J02	3.5	8.0	7.2	40	SMR5 472K400J02L4 BULK	
0.015	A01	4.0	9.0	13.0	15	SMR10 153K250A01L4 BULK	0.0056	J02	3.5	8.0	7.2	40	SMR5 562K400J02L4 BULK	
0.018	A01	4.0	9.0	13.0	15	SMR10 183K250A01L4 BULK	0.0068	J02	3.5	8.0	7.2	40	SMR5 682K400J02L4 BULK	
0.022	A01	4.0	9.0	13.0	15	SMR10 223K250A01L4 BULK	0.0082	J02	3.5	8.0	7.2	40	SMR5 822K400J02L4 BULK	
0.027	A01	4.0	9.0	13.0	15	SMR10 273K250A01L4 BULK	0.010	J02	3.5	8.0	7.2	40	SMR5 103K400J02L4 BULK	
0.033	A01	4.0	9.0	13.0	15	SMR10 333K250A01L4 BULK	0.012	J02	3.5	8.0	7.2	40	SMR5 123K400J02L4 BULK	
0.039	A01	4.0	9.0	13.0	15	SMR10 393K250A01L4 BULK	0.015	J03	4.5	9.0	7.2	40	SMR5 153K400J03L4 BULK	
0.047	A01	4.0	9.0	13.0	15	SMR10 473K250A01L4 BULK	0.018	J03	4.5	9.0	7.2	40	SMR5 183K400J03L4 BULK	
0.056	A01	4.0	9.0	13.0	15	SMR10 563K250A01L4 BULK	0.022	J04	5.0	10.0	7.2	40	SMR5 223K400J04L4 BULK	
0.068	A01	4.0	9.0	13.0	15	SMR10 683K250A01L4 BULK	0.027	J04	5.0	10.0	7.2	40	SMR5 273K400J04L4 BULK	
0.082	A02	4.5	10.5	13.0	15	SMR10 823K250A02L4 BULK	0.033	J05	6.0	11.0	7.2	40	SMR5 333K400J05L4 BULK	
0.10	A02	4.5	10.5	13.0	15	SMR10 104K250A02L4 BULK	0.039	J05	6.0	11.0	7.2	40	SMR5 393K400J05L4 BULK	
0.12	A03	5.0	11.0	13.0	15	SMR10 124K250A03L4 BULK	0.047	J06	7.2	13.0	7.2	40	SMR5 473K400J06L4 BULK	
0.15	A04	6.0	12.0	13.0	15	SMR10 154K250A04L4 BULK	0.056	J06	7.2	13.0	7.2	40	SMR5 563K400J06L4 BULK	
0.18	A04	6.0	12.0	13.0	15	SMR10 184K250A04L4 BULK								
LEAD SPACING 15 MM							LEAD SPACING 7.5 MM							
0.10	B04	5.5	10.5	18.0	10	SMR15 104K250B04L4 BULK	0.0010	K01	4.0	8.0	10.0	30	SMR7.5 102K400K01L4BULK	
0.12	B04	5.5	10.5	18.0	10	SMR15 124K250B04L4 BULK	0.0012	K01	4.0	8.0	10.0	30	SMR7.5 122K400K01L4BULK	
0.15	B04	5.5	10.5	18.0	10	SMR15 154K250B04L4 BULK	0.0015	K01	4.0	8.0	10.0	30	SMR7.5 152K400K01L4BULK	
0.18	B05	5.5	12.5	18.0	10	SMR15 184K250B05L4 BULK	0.0018	K01	4.0	8.0	10.0	30	SMR7.5 182K400K01L4BULK	
0.22	B10	6.5	12.5	18.0	10	SMR15 224K250B10L4 BULK	0.0022	K01	4.0	8.0	10.0	30	SMR7.5 222K400K01L4BULK	
0.27	B06	7.5	14.5	18.0	10	SMR15 274K250B06L4 BULK	0.0027	K01	4.0	8.0	10.0	30	SMR7.5 272K400K01L4BULK	
0.33	B06	7.5	14.5	18.0	10	SMR15 334K250B06L4 BULK	0.0033	K01	4.0	8.0	10.0	30	SMR7.5 332K400K01L4BULK	
0.39	B12	8.0	15.0	18.0	10	SMR15 394K250B12L4 BULK	0.0039	K01	4.0	8.0	10.0	30	SMR7.5 392K400K01L4BULK	
0.47	B11	8.5	16.0	18.0	10	SMR15 474K250B11L4 BULK	0.0047	K01	4.0	8.0	10.0	30	SMR7.5 472K400K01L4BULK	
0.56	B14	9.5	17.5	18.0	10	SMR15 564K250B14L4 BULK	0.0056	K01	4.0	8.0	10.0	30	SMR7.5 562K400K01L4BULK	
LEAD SPACING 22.5 MM							0.0068	K01	4.0	8.0	10.0	30	SMR7.5 682K400K01L4BULK	
0.47	D13	6.5	14.5	26.0	8	SMR22.5 474K250D13L4 TRAY	0.0082	K01	4.0	8.0	10.0	30	SMR7.5 822K400K01L4BULK	
0.56	D17	7.0	16.5	26.0	8	SMR22.5 564K250D17L4 TRAY	0.010	K01	4.0	8.0	10.0	30	SMR7.5 103K400K01L4BULK	
0.68	D17	7.0	16.5	26.0	8	SMR22.5 684K250D17L4 TRAY	0.012	K01	4.0	8.0	10.0	30	SMR7.5 123K400K01L4BULK	
0.82	D15	9.0	18.5	26.0	8	SMR22.5 824K250D15L4 TRAY	0.015	K01	4.0	8.0	10.0	30	SMR7.5 153K400K01L4BULK	
1.0	D15	9.0	18.5	26.0	8	SMR22.5 105K250D15L4 TRAY	0.018	K01	4.0	8.0	10.0	30	SMR7.5 183K400K01L4BULK	
1.2	D18	10.5	19.0	26.0	8	SMR22.5 125K250D18L4 TRAY	0.022	K01	4.0	8.0	10.0	30	SMR7.5 223K400K01L4BULK	
1.5	D16	11.0	21.5	26.0	8	SMR22.5 155K250D16L4 TRAY	0.027	K03	5.0	11.0	10.0	30	SMR7.5 273K400K03L4BULK	
LEAD SPACING 27.5 MM							0.033	K03	5.0	11.0	10.0	30	SMR7.5 333K400K03L4BULK	
1.5	F11	10.5	20.5	31.5	6	SMR27.5 155K250F11L4 TRAY	0.039	K03	5.0	11.0	10.0	30	SMR7.5 393K400K03L4BULK	
1.8	F11	10.5	20.5	31.5	6	SMR27.5 185K250F11L4 TRAY	0.047	K03	5.0	11.0	10.0	30	SMR7.5 473K400K03L4BULK	
2.2	F12	11.5	22.5	31.5	6	SMR27.5 225K250F12L4 TRAY	0.056	K04	6.0	12.0	10.5	30	SMR7.5 563K400K04L4BULK	
2.7	F13	14.5	24.5	31.5	6	SMR27.5 275K250F13L4 TRAY	0.068	K04	6.0	12.0	10.5	30	SMR7.5 683K400K04L4BULK	
3.3	F14	17.5	28.0	31.5	6	SMR27.5 335K250F14L4 TRAY	LEAD SPACING 10 MM							
3.9	F14	17.5	28.0	31.5	6	SMR27.5 395K250F14L4 TRAY	0.0027	A01	4.0	9.0	13.0	25	SMR10 272K400A01L4BULK	
							0.0033	A01	4.0	9.0	13.0	25	SMR10 332K400A01L4BULK	
							0.0039	A01	4.0	9.0	13.0	25	SMR10 392K400A01L4BULK	
							0.0047	A01	4.0	9.0	13.0	25	SMR10 472K400A01L4BULK	
							0.0068	A01	4.0	9.0	13.0	25	SMR10 682K400A01L4BULK	
							0.0082	A01	4.0	9.0	13.0	25	SMR10 822K400A01L4BULK	
							0.010	A01	4.0	9.0	13.0	25	SMR10 103K400A01L4BULK	
							0.012	A01	4.0	9.0	13.0	25	SMR10 123K400A01L4BULK	
							0.015	A01	4.0	9.0	13.0	25	SMR10 153K400A01L4BULK	
							0.018	A01	4.0	9.0	13.0	25	SMR10 183K400A01L4BULK	

ARTICLE TABLE

Capaci- tance μF	Box code	Max dimen- sions in mm			Max dU/dt V/ μs	Article code
		B	H	L		

400 VDC/200 VAC

LEAD SPACING 10 MM

0.022	A01	4.0	9.0	13.0	25	SMR10 223K400A01L4BULK
0.027	A01	4.0	9.0	13.0	25	SMR10 273K400A01L4BULK
0.033	A01	4.0	9.0	13.0	25	SMR10 333K400A01L4BULK
0.039	A02	4.5	10.5	13.0	25	SMR10 393K400A02L4BULK
0.047	A03	5.0	11.0	13.0	25	SMR10 473K400A03L4BULK
0.056	A03	5.0	11.0	13.0	25	SMR10 563K400A03L4BULK
0.068	A04	6.0	12.0	13.0	25	SMR10 683K400A04L4BULK
0.082	A04	6.0	12.0	13.0	25	SMR10 823K400A04L4BULK

LEAD SPACING 15 MM

0.047	B04	5.5	10.5	18.0	15	SMR15 473K400B04L4BULK
0.056	B04	5.5	10.5	18.0	15	SMR15 563K400B04L4BULK
0.068	B04	5.5	10.5	18.0	15	SMR15 683K400B04L4BULK
0.082	B05	5.5	12.5	18.0	15	SMR15 823K400B05L4BULK
0.10	B10	6.5	12.5	18.0	15	SMR15 104K400B10L4BULK
0.12	B06	7.5	14.5	18.0	15	SMR15 124K400B06L4BULK
0.15	B06	7.5	14.5	18.0	15	SMR15 154K400B06L4BULK
0.18	B12	8.0	15.0	18.0	15	SMR15 184K400B12L4BULK
0.22	B11	8.5	16.0	18.0	15	SMR15 224K400B11L4BULK
0.27	B14	9.5	17.5	18.0	15	SMR15 274K400B14L4BULK

ARTICLE TABLE

Capaci- tance μF	Box code	Max dimen- sions in mm			Max dU/dt V/ μs	Article code
		B	H	L		

400 VDC/200 VAC

LEAD SPACING 22.5 MM

0.15	D13	6.5	14.5	26.0	10	SMR22.5 154K400D13L4TRAY
0.18	D13	6.5	14.5	26.0	10	SMR22.5 184K400D13L4TRAY
0.22	D13	6.5	14.5	26.0	10	SMR22.5 224K400D13L4TRAY
0.27	D17	7.0	16.5	26.0	10	SMR22.5 274K400D17L4TRAY
0.33	D14	8.0	16.0	26.0	10	SMR22.5 334K400D14L4TRAY
0.39	D15	9.0	18.5	26.0	10	SMR22.5 394K400D15L4TRAY
0.47	D15	9.0	18.5	26.0	10	SMR22.5 474K400D15L4TRAY
0.56	D18	10.5	19.0	26.0	10	SMR22.5 564K400D18L4TRAY
0.68	D16	11.0	21.5	26.0	10	SMR22.5 684K400D16L4TRAY

LEAD SPACING 27.5 MM

0.47	F11	10.5	20.5	31.5	8	SMR27.5 474K400F11L4TRAY
0.56	F11	10.5	20.5	31.5	8	SMR27.5 564K400F11L4TRAY
0.68	F11	10.5	20.5	31.5	8	SMR27.5 684K400F11L4TRAY
0.82	F12	11.5	22.5	31.5	8	SMR27.5 824K400F12L4TRAY
1.0	F12	11.5	22.5	31.5	8	SMR27.5 105K400F12L4TRAY
1.2	F13	14.5	24.5	31.5	8	SMR27.5 125K400F13L4TRAY
1.5	F14	17.5	28.0	31.5	8	SMR27.5 155K400F14L4TRAY
1.8	F14	17.5	28.0	31.5	8	SMR27.5 185K400F14L4TRAY