

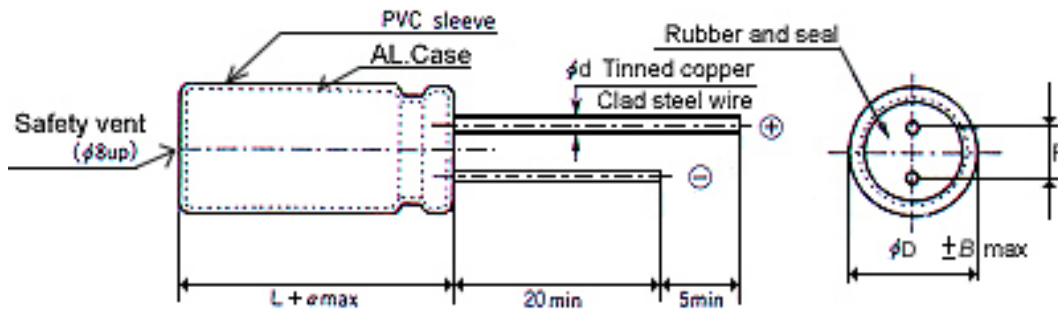


SR_{series} FOR GENERAL PURPOSE

Item	Characteristics													
Operating Temperature Range	-40~85°C							-25~85°C						
Rated Working Voltage Range	10V~100V DC							160V~450V DC						
Capacitance Tolerance (120Hz, 25°C)	±20%(M)													
Capacitance Tolerance (120Hz, 25°C)	10V~100V DC							160V~ 450V DC						
	$I \leq 0.02CV$ or 3(μA)							$I \leq 0.03CV$ or 40(μA)						
	I:Leakage Current (μA) C:Rated Capacitance (μF) V:Working Voltage (V) After 5 minutes applying the DC working voltage													
Surge Voltage (25°C)	W.V.	10	16	25	35	50	63	100	160	200	250	350	400	450
	S.V.	13	20	32	44	63	79	125	200	250	300	400	450	500
Dissipation Factor (120Hz, 25°C) (Tan. θ)	W.V.	10	16	25	35	50	63	100	160	200	250	350	400	450
	Tan. θ	0.20	0.17	0.15	0.12	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.24	0.24
For capacitance exceeding 1000 μF, add 0.02 per increment of 1000 μF														

Temperature Characteristics	W.V.	10	16	25	35	50	63	100	160	200	250	350	400	450
	-25°C/+25°C	4	3	3	2	2	2	2	8	8	8	12	15	16
	-40°C/+25°C	8	6	4	3	3	3	3	6	8	10	-	-	-
Impedance ration at 120Hz														
Load Test	After 1000 hours application of W.V. at +85°C the capacitor shall meet the following limits													
	Capacitance change	$\cong \pm 20\%$ of initial value												
	Tan. Θ	$\cong 150\%$ of initial specified value												
	Leakage current	\cong initial specified value												
Shelf Test	After 500 hours application of W.V. at +85°C the capacitor shall meet the following limits													
	Capacitance change	$\cong \pm 20\%$ of initial value												
	Tan. Θ	$\cong 150\%$ of initial specified value												
	Leakage current	$\cong 200\%$ of initial specified value												

SR series Dimensions



$$L \leq 16 \rightarrow d=1 \quad \phi D \leq 10 \rightarrow \beta=0.5$$

$$L > 16 \rightarrow d=2 \quad \phi D \leq 10 \rightarrow \beta=1.0$$

Unit (mm)

D	5	6	8	10	13	16	18	22	25
F±0.5	2	2.5	3.5	5	5	7.5	7.5	10	12.5
d±0.02	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	1.0

DxL (m/m)

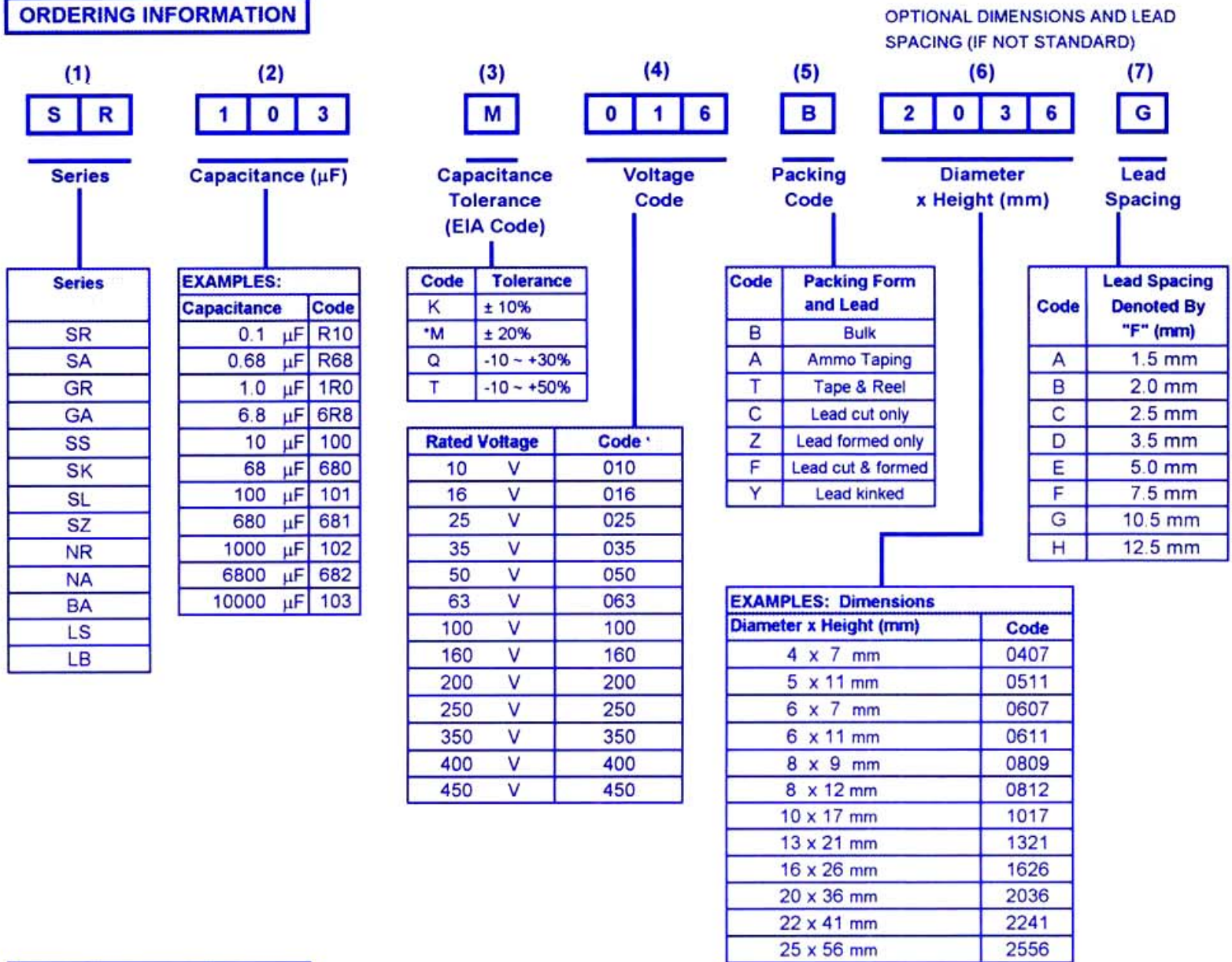
μF\VV	10	16	25	35	50	63	100			
0.47					5x11	5	5x11	5	5x11	10
1	Dimension: ϕ DxL(mm)				5x11	10	5x11	10	5x11	19
2.2	Ripple Current: mA (rms) at 120Hz 85°C				5x11	19	5x11	28	5x11	29
3.3					5x11	33	5x11	38	5x11	38
4.7					5x11	43	5x11	43	5x11	48

μFWV	10		16		25		35		50		63		100	
10			5x11	57	5x11	57	5x11	57	5x11	62	5x11	67	6x11	67
22			5x11	71	5x11	86	5x11	90	5x11	95	6x11	100	8x12	109
33			5x11	105	5x11	105	5x11	109	6x12	105	8x12	124	8x14	138
47	5x11	86	5x11	124	5x11	124	6x12	124	6x12	124	8x12	152	10x15	171
100	5x11	171	5x11	171	6x12	171	8x12	200	8x12	238	10x12	257	10x21	333
220	6x12	238	6x12	238	8x12	295	8x14	333	10x17	380	10x21	428	13x26	523
330	6x12	314	8x12	333	8x14	371	10x16	418	10x21	475	13x21	523	16x26	664
470	8x12 6.3x12	380	8x12	418	8x14	456	10x16	523	13x21	617	13x21	713	16x32	855
1000	8x14	599	10x16	646	10x16 10x21	808	13x21 13x24 16x16	855 855 1010	16x21 16x26	998	16x32 16x36	1045	20x36	1960
2200	10x21	874	10x21 13x21	950	13x21 13x26	1140	16x26 16x32	1188	16x32 16x36	1235	18x36 20x36	2440	25x45	
3300	13x21	1034	13x21 13x26	1045	16x26 16x32	1235	16x32 16x36	1330	18x36 20x36	2184	22x42	2870		
4700	13x26	1140	16x26 16x32	1292	16x32 16x36	1425	18x36 20x36	2300	22x42	2600	25x45	3415		
6800	16x32	1330	16x32	1520	18x36	2460	22x36	2600	25x45	3050				
10000	16x32 18x36	1520	18x36	2500	22x36	2700	25x45	3200	25x50	4100				

$\mu F \backslash W V$	160		200		250		350		400		450	
1	5x11	11	6x11	11	6x12	11	8x12	12	8x12	12	8x12	12
2.2	6x11	18	8x12	18	8x12	20	8x14	20	10x16	20	10x16	20
3.3	8x12	24	8x12	24	8x12	24	10x16	26	10x16	26	10x16	28
4.7	8x12	28	8x14	28	8x14	30	10x16	30	10x16	30	10x16	33
10	8x16	45	10x16	45	10x16	48	10x21	53	10x21	53	13x24	58
22	10x16	76	10x21	76	10x21	90	13x21	93	13x21	93	16x26	98
33	13x21	105	13x21	105	13x21	103	16x26	116	16x26	116	16x26	124
47	13x21	124	13x26	124	13x26	143	16x26	152	16x36	152	18x36	171
100	16x26	204	16x26	204	16x36	233	18x36	247	22x36		22x42	
220	16x36	347	18x36	356	22x36		25x50					

A-CAP PART NUMBER SYSTEM FOR ALUMINUM ELECTROLYTIC CAPACITORS

ORDERING INFORMATION



ORDERING DESCRIPTION

- (1) CAPACITOR SERIES
- (2) CAPACITANCE CODE expressed in microfarads (μF) with three digit codes. The first two digits are significant ("R" indicates decimal point for under 10 μF) and the third digit represents the number of zeros to be added following the 2nd significant figure.
- (3) TOLERANCE CODE [(M) is standard]
- (4) RATED VOLTAGE in volts
- (5) PACKAGING AND LEAD CONFIGURATION CODES
- (6) SIZE (DIAMETER x HEIGHT in mm)
- (7) LEAD SPACING in mm (Not applicable for AXIAL TYPE)

When placing an order for A-CAP ELECTROLYTIC CAPACITORS, product specifications are applied to develop part numbers as shown below:

EXAMPLE:

General purpose 1000 μF / 50 Volts / 20% / Radial Type Bulk / Lead spacing = 7.5mm

NOTE: For Capacitance Value 1000 μF, 1 & 0 are significant digits then 2 zeros follow the 2nd significant digit = Code 102

SR 102 M 050 B 1626 F

EXAMPLE:

High temperature load 470 μF / 25 Volts / 20% Radial Type (Tape & Reel) / Lead spacing = 5.0mm

NOTE: For Capacitance Value 470 μF, 4 & 7 are significant digits then 1 zero follows the 2nd significant digit = Code 471

GR 471 M 025 T 1021 E