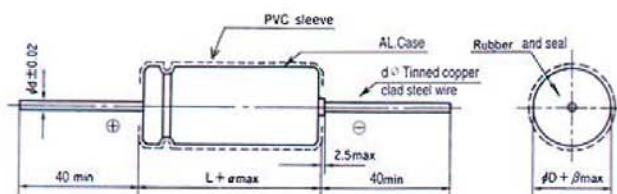




SA_{series} FOR GENERAL PURPOSE

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)													
Leakage Current (25°C)	10V~100V DC							160V~450V DC						
	$I \leq 0.02CV$ or $3(\mu A)$							$I \leq 0.03CV$ or $40(\mu A)$						
	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 eCeeding 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							$\leq \pm 20\%$ of initial value						
	Tan. Θ							$\leq 150\%$ of initial specified value						
	Leakage current							\leq initial specified value						
Shelf Test	After 500 hours application of W.V. at +85°C the capacitor shall meet the following limits													
	Capacitance change							$\leq \pm 20\%$ of initial value						
	Tan. Θ							$\leq 150\%$ of initial specified value						
	Leakage current							$\leq 200\%$ of initial specified value						

SAseries Dimensions



$$L \leq 16 \rightarrow \alpha = 1 \quad \varnothing D \leq 10 \rightarrow \beta = 0.5$$

$$L > 16 \rightarrow \alpha = 2 \quad \varnothing D \leq 10 \rightarrow \beta = 1.0$$

Unit (mm)

D	5, 6	8	10	13	16	18	20	22
d±0.02	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8

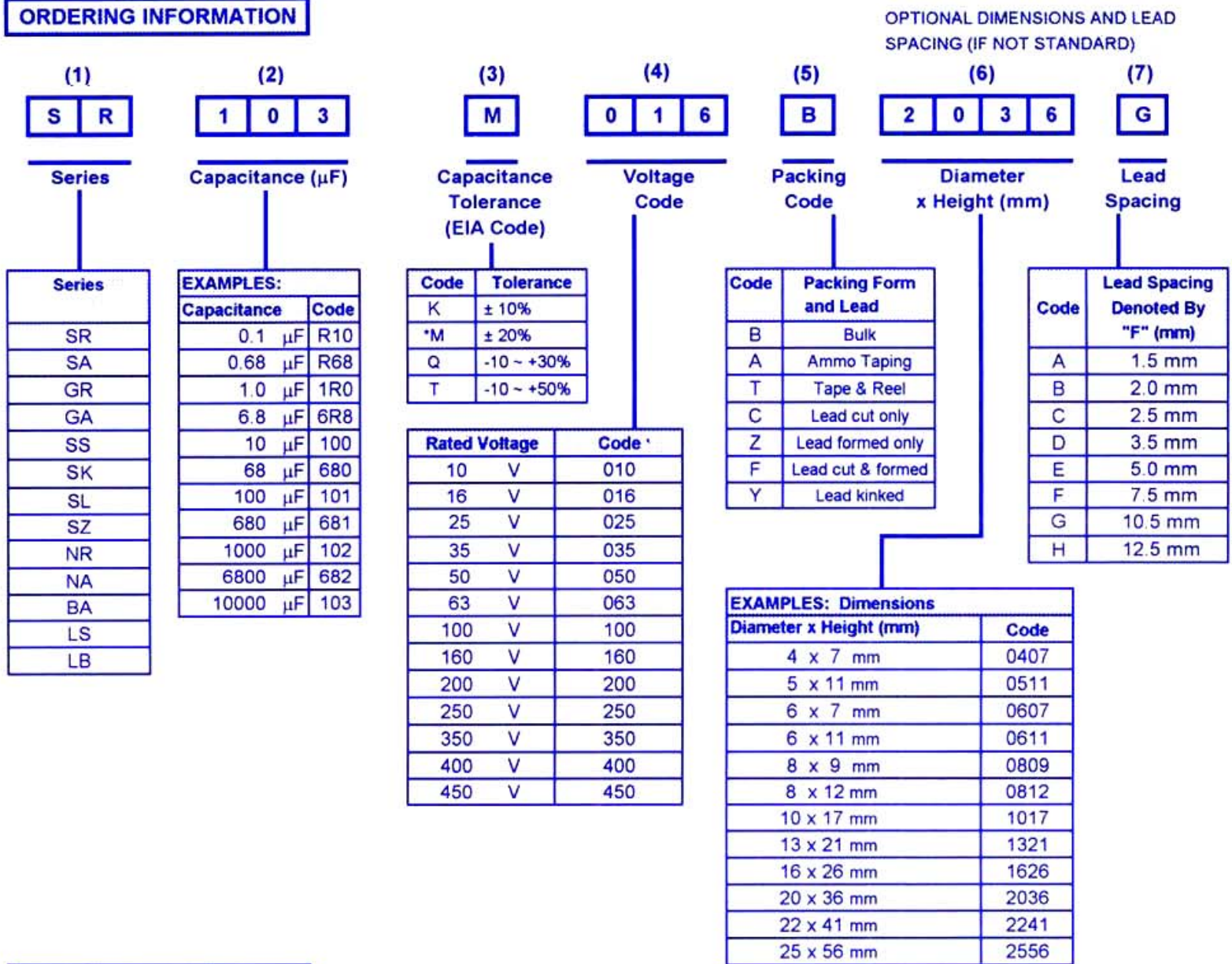
DxL (m/m)

μFWV	10		16		25		35		50		63		100			
0.47									5x12	5	5x12	5	5x12	10		
1	Dimension: \varnothing DxL(mm)										5x12	10	5x12	10	5x12	19
2.2	Ripple Current: mA (rms) at 120Hz 85°C										5x12	19	5x12	28	5x12	29
3.3									5x12	33	5x12	38	5x12	38		
4.7									5x12	43	5x12	43	6x13	48		
10					5x12	57	5x12	57	5x12	62	6x13	67	6.3x14	67		
22			5x12	71	5x12	86	6x13	90	6x13	95	6.3x14	100	8x16	105		
33	5x12	57	5x12	105	6x13	105	6.3x14	109	6.3x14	105	8x13	124	10x17	138		
47	5x12	86	6x13	124	6x13	124	6.3x14	124	8x13	124	8x16	152	10x21	171		
100	6x13	171	6x16	171	8x13	171	8x16	200	10x17	238	10x17	257	13x22	333		
220	8x13	238	8x13	238	8x16	295	10x17	333	10x21	380	13x22	428	16x28	523		
330	8x16	314	8x16	333	10x17	371	10x21	418	13x22	475	13x22	523	16x33	664		
470	8x16	380	8x16	418	10x21	456	10x21	523	13x22	617	13x27	713	16x36	855		
1000	10x17	599	10x21	646	13x21	808	13x26	855	16x33	998	18x36	1045	22x43			
2200	13x22	874	13x24	950	16x28	1140	16x33	1188	18x36	1235	22x43	2440				
3300	13x27	1034	16x28	1045	16x33	1235	18x36	1330	22x43	2184	25x52	2870				
4700	16x28	1140	16x33	1292	18x36	1425	22x43	2300	25x43	2600	25x52					
6800	18x36	1330	18x36	1520	20x36	2460	22x42	2600								
10000	18x36	1520	20x36	2500	22x42	2700	25x54									

μ FWV	160		200		250		350		400		450	
1	6x13	11	6.3x14	11	6.3x14	11	8x16	12	8x16	12	8x16	12
2.2	6x13	18	8x16	18	8x16	20	8x20	20	10x17	20	10x21	20
3.3	8x16	24	8x16	24	8x20	24	8x20	26	10x17	26	10x21	28
4.7	8x16	28	8x16	28	10x17	30	10x21	30	13x22	30	13x22	33
10	10x17	45	10x21	45	10x21	48	13x22	53	13x22	53	13x27	58
22	13x22	76	13x22	76	13x27	90	13x27	93	16x33	93	16x36	98
33	13x22	105	13x27	105	16x28	103	16x33	116	16x36	116	16x40	124
47	13x27	124	13x27	124	16x33	143	16x40	152	18x42	152	18x42	171
100	16x33	204	16x36	204	18x42	233	22x43	247	25x52		25x52	
220	18x42	347	22x43	356	22x43							

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**