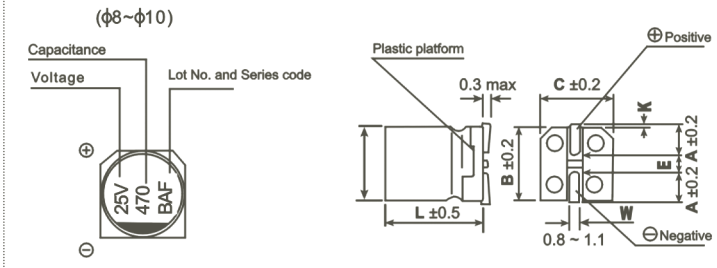
FEATURES

- Designed for surface mounting on high-density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-55 to +105˚C
Rated Working Voltage Range	6.3 to 35V
Nominal Capacitance Range	47 to 1500μF
Capacitance Tolerance	±20% at 120Hz, +20˚C
Leakage Current	I ≤0.01CV or 3 (μA) whichever is greater measured after 2 minutes application of rated working voltage at +20˚C
tan δ (120Hz, +20˚C)	Working Voltage (V): 6.3 / 10 / 16 / 25 / 35 tan δ (max.): 0.26 / 0.19 / 0.16 / 0.14 / 0.12
Stability at Low Temperature	Measurement frequency: 120Hz Working Voltage (V): 6.3 / 10 / 16 / 25 / 35 Z-25˚C / Z+20˚C: 2 / 2 / 2 / 2 / 2 Z-40˚C / Z+20˚C: 3 / 3 / 3 / 3 / 3 Z-55˚C / Z+20˚C: 4 / 4 / 4 / 3 / 3
Load Life	After applying rated voltage for 3,000 hours at +105˚C ±2˚C and then being stabilized at +20˚C, the capacitors shall meet the following limits Cap. change : ±35% of the initial measured value tan δ : ≤300% of the initial specified value DC leakage current : ≤initial specified value
Shelf Life	After 1,000 hours at +105˚C ±2˚C with no voltage applied and then being stabilized at +20˚C, they meet the limits specified value in life characteristics listed above
Resistance to Soldering Heat	After reflow and then being stabilized at +20˚C, the capacitors shall meet the following limits Cap. change : ±10% of the initial measured value tan δ : ≤initial specified value DC leakage current : ≤initial specified value
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)

CHIP TYPE



PART NUMBER SYSTEM (EXAMPLE : 25V 470μF)

1 2 3	4 5 6	7	8 9	10	11 12	13 14
VRF	477	M	1E	G	T2	TR

- Type (Taping Code)
- Case Length (10.2mm)
- Diameter (10mm)
- Voltage (25V)
- Tolerance (+20%)
- Capacitance (470μF)
- Series

SAMXON®
Aluminum Electrolytic Capacitors

Surface Mount Type (貼片品), Lowest Impedance (更低阻抗), Long Life (長壽命)

STANDARD RATINGS

D	L	B, C	A	W	E	K
8.0	10.2	8.3	2.95	0.90 ± 0.2	3.1	0.70-0.40 to +0.20
10.0	10.2	10.3	3.2	0.90 ± 02	4.6	0.70-0.40 to +0.20

Unit: mm

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
330	337				8 x 10.2	0.16	600	8 x 10.2	0.16	600
470	477	8 x 10.2	0.16	600	8 x 10.2	0.16	600	8 x 10.2	0.16	600
1000	108	8 x 10.2	0.16	600	10 x 10.2	0.08	850			
1500	158	10 x 10.2	0.08	850						

Maximum Allowable Ripple Current (mArms) at 105˚C 100kHz
Maximum Impedance (Ω) at 20˚C 100kHz
Case Size ΦD x L (mm)

Voltage (Code)		25V (1E)			35V (1V)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
47	476				8 x 10.2	0.16	600
100	107				8 x 10.2	0.16	600
150	157	8 x 10.2	0.16	600	8 x 10.2	0.16	600
220	227	8 x 10.2	0.16	600	8 x 10.2	0.16	600
330	337	8 x 10.2	0.16	600	10 x 10.2	0.08	850
470	477	10 x 10.2	0.08	850			

Maximum Allowable Ripple Current (mArms) at 105˚C 100kHz
Maximum Impedance (Ω) at 20˚C 100kHz
Case Size ΦD x L (mm)

* Other voltage, capacitance, dimension are also available upon request.