

FEATURES

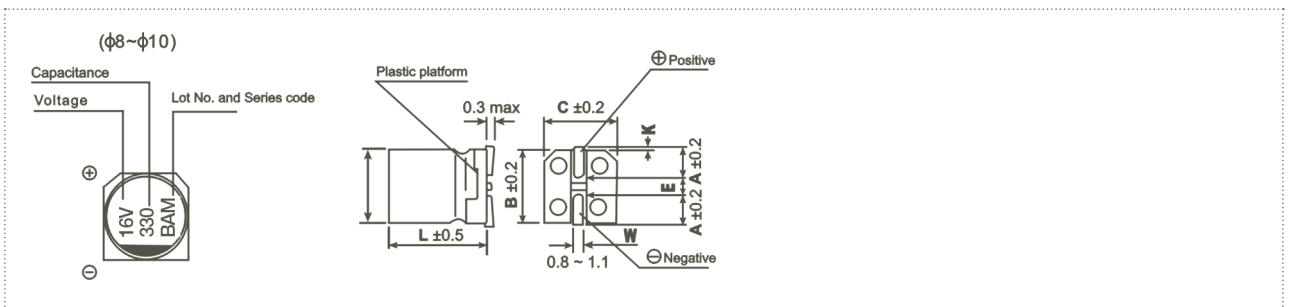
- Designed for surface mounting on high-density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.



SPECIFICATIONS

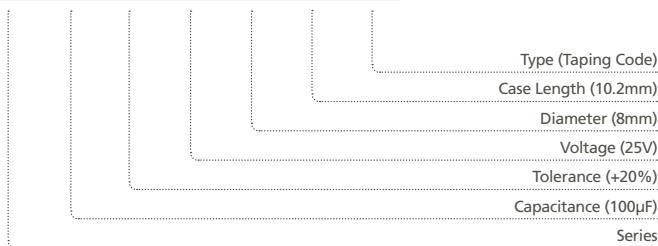
Item	Performance Characteristics						
Operating Temperature Range	-40 to +105°C						
Rated Working Voltage Range	6.3 to 50V						
Nominal Capacitance Range	33 to 470µF						
Capacitance Tolerance	±20% at 120Hz, +20°C						
Leakage Current	$I \leq 0.01CV$ or 3 (µA) whichever is greater measured after 2 minutes application of rated working voltage at +20°C						
tan δ (120Hz, +20°C)	The values shown in the STANDARD RATINGS tables						
Low Temperature Characteristics	Measurement frequency: 120Hz						
	Working Voltage (V)	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	4	3	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	4	3	3
Load Life	After applying rated voltage for 2,000 hours at +105°C ±2°C and then being stabilized at +20°C, capacitors shall meet the following limits Capacitance change : ±20% of the initial measured value tan δ : ≤200% 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 specified value life characteristics listed above						
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20°C, the capacitors shall meet the following limits Capacitance 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 100µF)

1 2 3	4 5 6	7	8 9	10	11 12	13 14
VKM	107	M	1E	F	T2	TR



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 ± 0.2	4.6	0.70-0.40 to +0.20

Unit: mm

Voltage (Code)		6.3 (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current
220	227	8 x 10.2	0.35	150	8 x 10.2	0.26	160	8 x 10.2	0.20	184
330	337	8 x 10.2	0.35	230				8 x 10.2	0.20	202
470	477				8 x 10.2	0.26	237			

Maximum Allowable Ripple Current (mArms) at 105°C 120Hz

Case Size ΦD x L (mm)

tan δ at 20°C 120Hz

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current
33	336							8 x 10.2	0.12	91
47	476				8 x 10.2	0.14	98	10 x 10.2	0.12	100
100	107	8 x 10.2	0.16	130	8 x 10.2	0.14	140			
220	227	8 x 10.2	0.16	167						

Maximum Allowable Ripple Current (mArms) at 105°C 120Hz

Case Size ΦD x L (mm)

tan δ at 20°C 120Hz

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

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.