

VSS Series

SAMXON®

+85°C, Surface Mount Type General Purpose(貼片普通品)

FEATURES

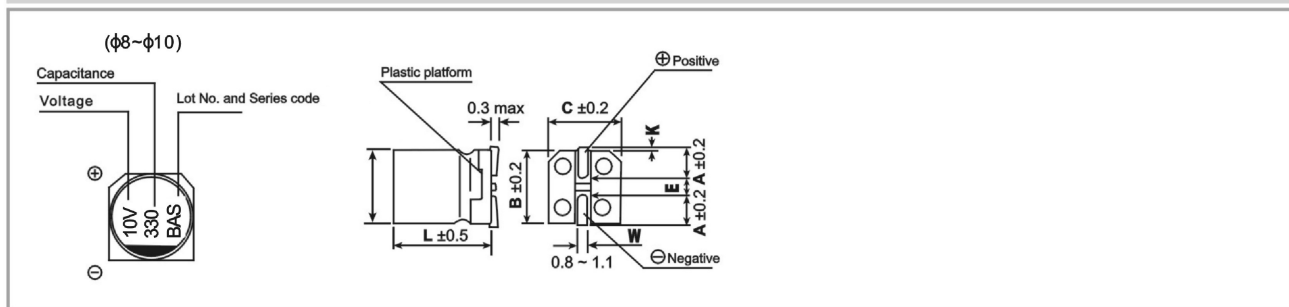
1. Designed for surface mounting on high-density circuit board.
2. Emboss carrier tape packing system is available for automatic insertion.



SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature Range	-40 to +85°C	
Rated Working Voltage Range	6.3 to 100V	
Nominal Capacitance Range	4.7 to 1500μF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ whichever is greater (after 2 minutes at 20°C) C = Nominal Capacitance (μF) V = Rated Voltage (V) I = Leakage Current (μA)	
tan δ (120Hz, +20°C)	Please see the attached standard products list	
Low Temperature Characteristics	Measurement frequency: 120Hz.	
	Working Voltage (V)	6.3 10 16 25 35 50 63
	Z-25°C / Z+20°C	4 3 2 2 2 2 3
	Z-40°C / Z+20°C	8 6 4 4 3 3 4
	Working Voltage (V)	100
	Z-25°C / Z+20°C	3
Load Life	After apply rated voltage for 2000 hours at +85°C ±2°C and then being stabilized at +20%, capacitor shall meet the following limits.	
	Capacitance change	±20% of initial measured value
	tan δ	≤ 200% of initial specified value
Shelf Life	After storage 1000 hours at +85°C ±2°C with no voltage applied and then being stabilized at +20°C, they meet the specified value life characteristics listed above	
	Capacitance change	±10% of initial measured value
	tan δ	≤ Initial specified value
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20°C, capacitor shall meet the following limits.	
	Capacitance change	±10% of initial measured value
	tan δ	≤ Initial specified value
Others	JIS C - 5101 (IEC 60384)	

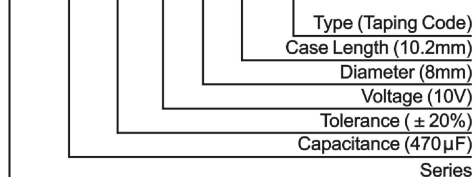
CHIP TYPE



PART NUMBER SYSTEM(EXAMPLE:10V470μF)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

VSS 477 M 1A F T2 TR



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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)		6.3V (0J)			10V (1A)					
Cap.(μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current			
330	337				8 x 10.2	0.26	390			
470	477	8 x 10.2	0.35	380	8 x 10.2	0.26	390			
1000	108	8 x 10.2	0.35	500	10 x 10.2	0.26	580			
1500	158	10 x 10.2	0.35	750						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz
tan δ at 20°C 120Hz

Case Size φD x L(mm)

Voltage (Code)		16V (1C)			25V (1E)			35V (1V)		
Cap.(μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current
100	107							8 x 10.2	0.14	140
220	227				8 x 10.2	0.16	230	8 x 10.2	0.14	200
330	337	8 x 10.2	0.20	320	8 x 10.2	0.16	270	10 x 10.2	0.14	350
470	477	8 x 10.2	0.20	350	10 x 10.2	0.16	380			

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz
tan δ at 20°C 120Hz

Case Size φD x L(mm)

Voltage (Code)		50V (1H)			63V (1J)			100V (2A)		
Cap.(μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current
4.7	475							8 x 10.2	0.18	80
10	106							8 x 10.2	0.18	85
22	226				8 x 10.2	0.18	40	8 x 10.2	0.18	87
33	336				8 x 10.2	0.18	45	10 x 10.2	0.18	90
47	476				8 x 10.2	0.18	45			
100	107	8 x 10.2	0.12	200	10 x 10.2	0.18	60			
220	227	10 x 10.2	0.12	300						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz
tan δ at 20°C 120Hz

Case Size φD x L(mm)

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