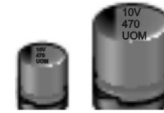


**+105°C, 2000hrs, Surface Mount Type (貼片品)**

**FEATURES**

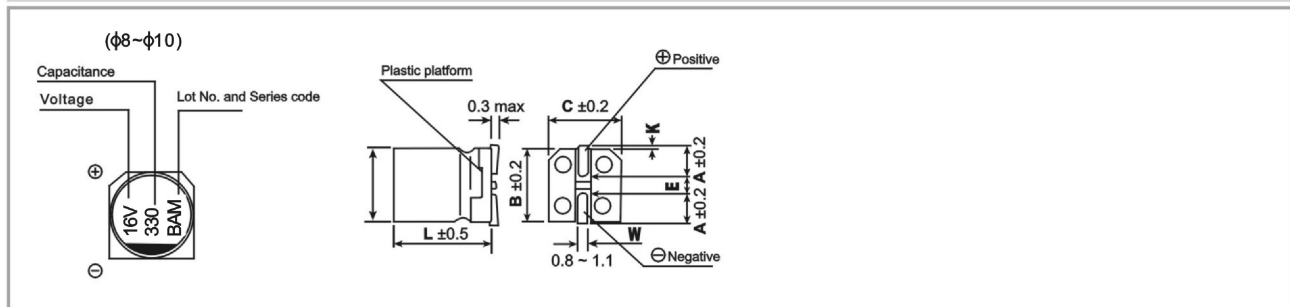
1. Designed for surface mounting on high-density circuit board.
2. Emboss carrier tape packing system is available for automatic insertion.



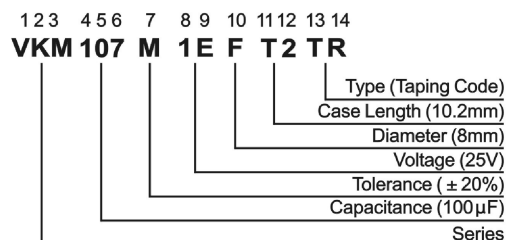
**SPECIFICATIONS**

Item	Performance Characteristics																					
Operating Temperature Range	-40 to +105°C																					
Rated Working Voltage Range	6.3 to 50V																					
Nominal Capacitance Range	3.3 to 470μF																					
Capacitance Tolerance	±20% (120Hz, +20°C)																					
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ after 2 minutes (Whichever is greater) $C$ = Nominal Capacitance ( $\mu F$ ) $V$ = Rated Voltage (V) $I$ = Leakage Current ( $\mu A$ )																					
$\tan \delta$ (120Hz, +20°C)	Please see the attached standard products list																					
Low Temperature Characteristics	Measurement frequency: 120Hz. <table border="1"> <thead> <tr> <th>Working Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	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
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 2000 hours at +105°C ±2°C and then being stabilized at +20°C, capacitor shall meet the following limits. <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>±20% of initial measured value</td> </tr> <tr> <td><math>\tan \delta</math></td> <td>≤ 200% of initial specified value</td> </tr> <tr> <td>DC leakage current</td> <td>≤ Initial specified value</td> </tr> </tbody> </table>	Capacitance change	±20% of initial measured value	$\tan \delta$	≤ 200% of initial specified value	DC leakage current	≤ Initial specified value															
Capacitance change	±20% of initial measured value																					
$\tan \delta$	≤ 200% of initial specified value																					
DC leakage current	≤ Initial specified value																					
Shelf Life	After 1000 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, capacitor shall meet the following limits. <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>±10% of initial measured value</td> </tr> <tr> <td><math>\tan \delta</math></td> <td>≤ Initial specified value</td> </tr> <tr> <td>DC leakage current</td> <td>≤ Initial specified value</td> </tr> </tbody> </table>	Capacitance change	±10% of initial measured value	$\tan \delta$	≤ Initial specified value	DC leakage current	≤ Initial specified value															
Capacitance change	±10% of initial measured value																					
$\tan \delta$	≤ Initial specified value																					
DC leakage current	≤ Initial specified value																					
Others	JIS C - 5101 (IEC 60384)																					

**CHIP TYPE**



**PART NUMBER SYSTEM(EXAMPLE:25V100μF)**



# VKM Series

SAMXON®

**+105°C, 2000hrs, Surface Mount Type (貼片品)**

## 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)			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 (mA rms) at 105°C 120Hz  
tan δ at 20°C 120Hz

Case Size φD x L(mm)

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	8 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 (mA rms) at 105°C 120Hz  
tan δ at 20°C 120Hz

Case Size φD x L(mm)

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