



Specifications

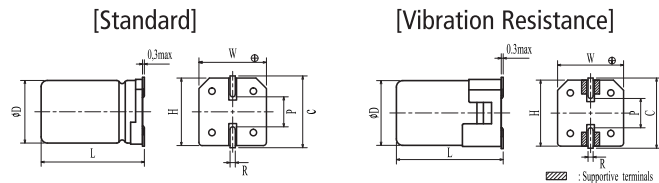
Items	Characteristics												
Category temperature range	-55 to +125°C												
Rated voltage range	25 to 80Vdc												
Capacitance range	33 to 680μF												
Capacitance tolerance	±20% [M] (at 20°C, 120Hz)												
Leakage current	I=0.01CV or 3μA whichever is greater (at 20°C, after 2 minutes)												
Tangent of loss angle(tanδ)	<table border="1"> <thead> <tr> <th>Rated voltage(V)</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> </tr> </thead> <tbody> <tr> <td>Tanδ</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> </tr> </tbody> </table> <p style="text-align: right;">(at 20°C, 120Hz)</p>	Rated voltage(V)	25	35	50	63	80	Tanδ	0.14	0.12	0.10	0.08	0.08
Rated voltage(V)	25	35	50	63	80								
Tanδ	0.14	0.12	0.10	0.08	0.08								
ESR	Less than or equal to the value of Standard Ratings (at 20°C, 100kHz)												
Low temperature characteristics (Impedance ratio at 100kHz)	Z (-25 °C) / Z (+20 °C) ≤ 1.5 Z (-55 °C) / Z (+20 °C) ≤ 2.0												
Endurance	125°C, 4,000 hrs, apply the rated ripple current without exceeding the rated voltage												
	Capacitance change	Within±30% of the initial value											
	Tangent of loss angle (tanδ)	≤200% of the initial specified value											
	ESR(mΩ)	≤200% of the initial specified value											
	Leakage current	≤The initial specified value											
Shelf life	After storage for 1,000 hrs at 125°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the specified values for the endurance characteristics listed above.(with voltage treatment)												
	85°C, 85% RH, 2,000 hrs, rated voltage applied												
Damp Heat (Steady State)	Capacitance change	Within±30% of the initial value											
	Tangent of loss angle (tanδ)	≤200% of the initial specified value											
	ESR(mΩ)	≤200% of the initial specified value											
	Leakage current	≤The initial specified value											

Part numbering system

Example: HVS series, 80V / 33μF / Vibration resistant structure

80	HVS	33	M	E	10	V
Voltage	Series	Capacitance	Tolerance	Diameter	Length	Vibration resistant structure

Dimensions



Frequency coefficient for ripple current

Frequency	120Hz	1kHz	10kHz	100kHz
Coefficient	0.15	0.40	0.75	1.00

[Standard]

Size	ØD±0.5	L	W±0.2	H±0.2	C±0.2	R	P±0.2
5.0×5.9	5.0	5.9±0.3	5.3	5.3	6.0	0.6 to 0.8	1.4
6.3×5.9	6.3	5.9±0.3	6.6	6.6	7.3	0.6 to 0.8	2.1
6.3×7.7	6.3	7.7±0.3	6.6	6.6	7.3	0.6 to 0.8	2.1
8.0×9.7	8.0	9.7±0.5	8.3	8.3	9.0	0.8 to 1.1	3.2
10.0×10.5	10.0	10.5±0.5	10.3	10.3	11.0	0.8 to 1.1	4.6
10.0×12.5	10.0	12.5±0.5	10.3	10.3	11.0	0.8 to 1.1	4.6
10.0×16.5	10.0	16.5±0.5	10.3	10.3	11.0	0.8 to 1.1	4.6

(unit: mm)

Marking and Dimensions



[Vibration Resistance]

Size	ØD±0.5	L	W±0.2	H±0.2	C±0.2	R	P±0.2
6.3×6.2	6.3	6.2±0.3	6.6	6.6	7.3	0.6 to 0.8	2.1
6.3×8.0	8.0	8.0±0.3	6.6	6.6	7.3	0.6 to 0.8	2.1
8.0×9.9	8.0	9.9±0.5	8.3	8.3	9.0	0.8 to 1.1	3.2
10.0×10.7	10.0	10.7±0.5	10.3	10.3	11.0	0.8 to 1.1	4.6
10.0×12.7	10.0	12.7±0.5	10.3	10.3	11.0	0.8 to 1.1	4.6
10.0×16.7	10.0	16.7±0.5	10.3	10.3	11.0	0.8 to 1.1	4.6

(unit: mm)

• Standard Ratings

Rated Voltage [Vdc]	Rated Capacitance [μF]	Size ØD x L [mm]	ESR (20°C, 100kHz) [mΩ] [max.]	Rated Ripple Current (125°C, 100kHz) [mA rms]	Part Number
25	47	5.0 x 5.9	80	850	25HVK47MB6
	56	5.0 x 5.9	60	900	25HVK56MB6
	68	6.3 x 5.9	50	1300	25HVK68MC6□
	82	6.3 x 5.9	50	1300	25HVK82MC6□
	150	6.3 x 7.7	30	1800	25HVK150MC8□
	270	8.0 x 9.7	27	2000	25HVK270MD10□
	470	10.0 x 10.5	20	2800	25HVK470ME10□
	680	10.0 x 16.5	11	5700	25HVK680ME16□
35	33	5.0 x 5.9	100	750	35HVK33MB6
	56	6.3 x 5.9	60	1200	35HVK56MC6□
	100	6.3 x 7.7	35	1700	35HVK100MC8□
	180	8.0 x 9.7	27	2000	35HVK180MD10□
	330	10.0 x 10.5	20	2800	35HVK330ME10□
	470	10.0 x 16.5	11	5700	35HVK470ME16□
50	100	10.0 x 10.5	28	3000	50HVK100ME10□
	220	10.0 x 16.5	13	5100	50HVK220ME16□
63	82	10.0 x 10.5	30	1400	63HVK82ME10□
	100	10.0 x 12.5	28	2100	63HVK100ME12□
	150	10.0 x 16.5	15	4900	63HVK150ME16□
	180	10.0 x 16.5	15	4900	63HVK180ME16□
80	68	10.0 x 12.5	32	3500	63HVK68ME12□
	100	10.0 x 16.5	16	4400	63HVK100ME16□

*Terminal Code : V(Vibration-proof products)

Conductive Polymer Hybrid
Aluminum Electrolytic Capacitors
Radial Lead Type

Conductive Polymer Hybrid
Aluminum Electrolytic Capacitors
SMD Lead Type

Conductive Polymer Aluminum
Electrolytic Capacitors_Radial Lead Type

Conductive Polymer Aluminum
Electrolytic Capacitors_SMD Lead Type