



Specifications

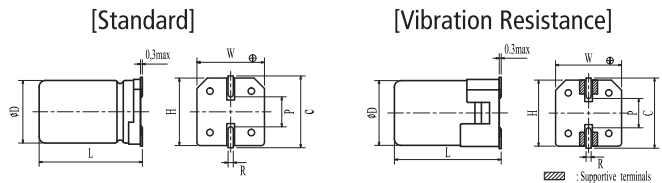
Items	Characteristics												
Category temperature range	-55 to +125°C												
Rated voltage range	25 to 80Vdc												
Capacitance range	10 to 560μF												
Capacitance tolerance	±20% [M] (at 20°C, 120Hz)												
Leakage current	I=0.01CV or 3μA whichever is greater (at 20°C, after 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)	$Z(-25\text{ }^{\circ}\text{C}) / Z(+20\text{ }^{\circ}\text{C}) \leq 1.5$ $Z(-55\text{ }^{\circ}\text{C}) / Z(+20\text{ }^{\circ}\text{C}) \leq 2.0$												
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	33	5.0 x 5.9	80	550	25HVC33MB6
	56	6.3 x 5.9	50	900	25HVC56MC6□
	100	6.3 x 7.7	30	1400	25HVC100MC8□
	100	8.0 x 7.7	30	1400	25HVC100MC8□
	150	8.0 x 9.7	27	1600	25HVC150MD10□
	220	8.0 x 9.7	27	1600	25HVC220MD10□
	330	10.0 x 10.5	20	2000	25HVC330ME10□
	560	10.0 x 10.5	20	2800	25HVC560ME10□
35	22	5.0 x 5.9	100	550	35HVC22MB6
	47	6.3 x 5.9	60	900	35HVC47MC6□
	68	6.3 x 7.7	35	1400	35HVC68MC8□
	100	8.0 x 9.7	27	1600	35HVC100MD10□
	150	8.0 x 9.7	27	1600	35HVC150MD10□
	220	8.0 x 10.5	27	2000	35HVC220MD10□
	220	10.0 x 10.5	20	2000	35HVC220ME10□
	270	10.0 x 10.5	20	2000	35HVC270ME10□
470	10.0 x 12.5	16	4100	35HVC470ME12□	
50	10	5.0 x 5.9	120	500	50HVC10MB6
	22	6.3 x 5.9	80	750	50HVC22MC6□
	33	6.3 x 7.7	40	1100	50HVC33MC8□
	47	8.0 x 9.7	35	1250	50HVC47MD10□
	68	8.0 x 9.7	30	1250	50HVC68MD10□
	100	10.0 x 10.5	28	1600	50HVC100ME10□
	120	10.0 x 10.5	28	1600	50HVC120ME10□
	220	10.0 x 16.5	13	3900	50HVC220ME16□
63	10	6.3 x 5.9	120	700	63HVC10MC6□
	22	6.3 x 7.7	80	900	63HVC22MC8□
	33	8.0 x 9.7	40	1100	63HVC33MD10□
	47	8.0 x 9.7	40	1100	63HVC47MD10□
	56	10.0 x 10.5	30	1400	63HVC56ME10□
	68	10.0 x 10.5	30	1400	63HVC68ME10□
	82	10.0 x 10.5	30	1400	63HVC82ME10□
	100	10.0 x 12.5	28	2100	63HVC100ME12□
80	22	8.0 x 9.7	45	1050	80HVC22MD10□
	33	10.0 x 10.5	35	1360	80HVC33ME10□
	47	10.0 x 10.5	35	1360	80HVC47ME10□

*Terminal Code : V(Vibration-proof products)