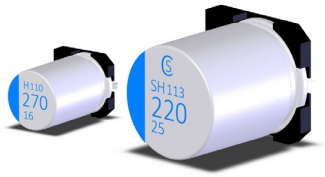
CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

VSH Series NEW

- **Low ESR at a high frequency ranged**
- **High ripple current capability**
- **2,000 hours at 125℃**

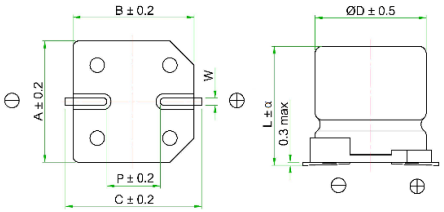


◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-55 ~ +125℃
Working Voltage Range	2.5 ~ 35Vdc
Surge Voltage	Rated Voltage ×1.15
Capacitance Tolerance	M: ±20% (at 25℃ and 120Hz)
ESR	See the standard ratings table (at 25℃, 100~300KHz)
Dissipation Factor (Tanδ)	See the standard ratings table (at 25℃, 120Hz)
Leakage Current ※1	See the standard ratings table (Impress the rated voltage for 2 minutes)
Low Temperature Characteristics Impedance Ratio	Z(-25℃)/Z(+25℃) ≤1.15 at 100KHz Z(-55℃)/Z(+25℃) ≤1.25 at 100KHz
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25℃ after subjected to DC voltage for 2,000 hours at 125℃. Capacitance change: ≦ ±20% of the initial value ESR: ≦ 150% of the specified value Dissipation factor(tanδ): ≦ 150% of the specified value Leakage current: ≦ specified value
Damp Heat (Steady State)	The following requirements shall be satisfied when the capacitor are restored to 25℃ after exposing them for 1,000 hours at 60℃ 90 to 95% RH. Capacitance change: ≦ ±20% of the initial value ESR: ≦ 150% of the specified value Dissipation factor(tanδ): ≦ 150% of the specified value Leakage current: ≦ specified value
Others	Conforms to JIS-C-5101-25 (2009)

※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at105℃.
※2 ESR should be measured at both of the terminal ends closest to the capacitor body.

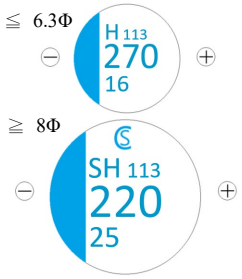
◆ DIMENSIONS (mm)



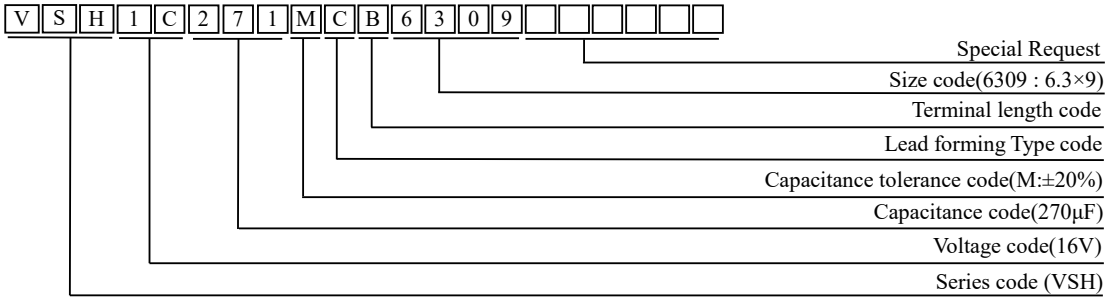
◆ LEAD

Code	Case size	ΦD	L	α	A	B	C	W	P
6357	6.3×5.7	6.3	5.7	0.3	6.6	6.6	7.3	0.5~0.8	2.1
6309	6.3×9	6.3	9	1	6.6	6.6	7.3	0.7~1.1	2.1
0867	8×6.7	8	6.7	0.3	8.3	8.3	9	0.7~1.1	3.2
0897	8×9.7	8	9.7	0.5	8.3	8.3	9	0.7~1.1	3.2
08B7	8×11.7	8	11.7	0.5	8.3	8.3	9	0.7~1.1	3.2
08C7	8×12.7	8	12.7	0.5	8.3	8.3	9	0.7~1.1	3.2
1010	10×10	10	10	0.5	10.3	10.3	11	0.7~1.1	4.6
1012	10×12	10	12	0.5	10.3	10.3	11	0.7~1.1	4.6

◆ MARKING



◆ PART NUMBER SYSTEM (Example : 16V 270μF)



VSH Series NEW

◆ **STANDARD RATINGS**

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	ESR 100~300KHz (mΩmax)	Rated Ripple current (mArms max)		Tanδ max	Leakage Current (μA max)	Part Number
				≦105℃	105~125℃			
6.3 (0J)	220	6.3×5.7	15	3160	1000	0.12	500	VSH0J221MCB6357
10 (1A)	270	6.3×9	20	3950	1650	0.12	540	VSH1A271MCB6309
	330	6.3×9	25	3950	1650	0.12	660	VSH1A331MCB6309
16 (1C)	100	6.3×5.7	20	2490	700	0.12	320	VSH1C101MCB6357
	270	6.3×9	22	3300	1040	0.12	864	VSH1C271MCB6309
20 (1D)	180	8×6.7	29	4650	1600	0.12	720	VSH1D181MCB0867
25 (1E)	22	6.3×5.7	35	1400	560	0.12	280	VSH1E220MCB6357
	150	8×9.7	22	2600	1040	0.12	750	VSH1E151MCB0897
	180	8×11.7	18	2800	1080	0.12	900	VSH1E181MCB08B7
	220	8×9.7	22	3500	1100	0.12	600	VSH1E221MCB0897
	220	8×12.7	25	2800	1080	0.12	1100	VSH1E221MCB08C7
	330	8×12.7	25	2800	1080	0.12	1650	VSH1E331MCB08C7
	470	10×12	14	4700	1600	0.12	2350	VSH1E471MCB1012
35 (1V)	22	6.3×5.7	50	1300	400	0.12	154	VSH1V220MCB6357
	47	10×10	30	3800	1470	0.12	410	VSH1V470MCB1010
	56	6.3×9	40	2400	800	0.12	392	VSH1V560MCB6309
	100	8×11.7	30	2800	1080	0.12	700	VSH1V101MCB08B7
	100	8×12.7	30	2800	1080	0.12	700	VSH1V101MCB08C7
	120	8×12.7	30	2800	1080	0.12	840	VSH1V121MCB08C7