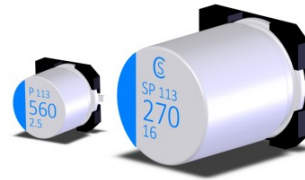


CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



VSP Series

- Super low ESR at a high frequency ranged
- High ripple current capability
- 2,000 hours at 105°C



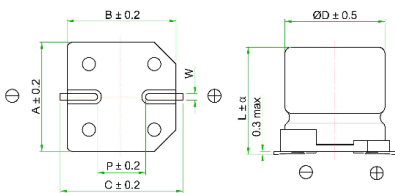
◆ SPECIFICATIONS

Item	Performance Characteristics	
Category Temperature Range	-55 ~ +105°C	
Working Voltage Range	2.5 ~ 25Vdc	
Surge Voltage	Rated Voltage × 1.15	
Capacitance Tolerance	M: ±20% (at 25°C and 120Hz)	
ESR	See the standard ratings table (at 25°C, 100~300KHz)	
Dissipation Factor (Tanδ)	See the standard ratings table (at 25°C, 120Hz)	
Leakage Current ※1	See the standard ratings table (Impress the rated voltage for 2 minutes)	
Low Temperature Characteristics Impedance Ratio	Z(-25°C)/Z(+25°C) ≤ 1.15 at 100KHz Z(-55°C)/Z(+25°C) ≤ 1.25 at 100KHz	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage for 2,000 hours at 105°C.	
	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°C after exposing them for 1,000 hours at 60°C 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 at 105°C.

※2 ESR should be measured at both of the terminal ends closest to the capacitor body.

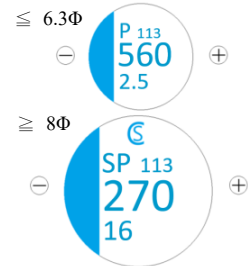
◆ DIMENSIONS (mm)



◆ LEAD

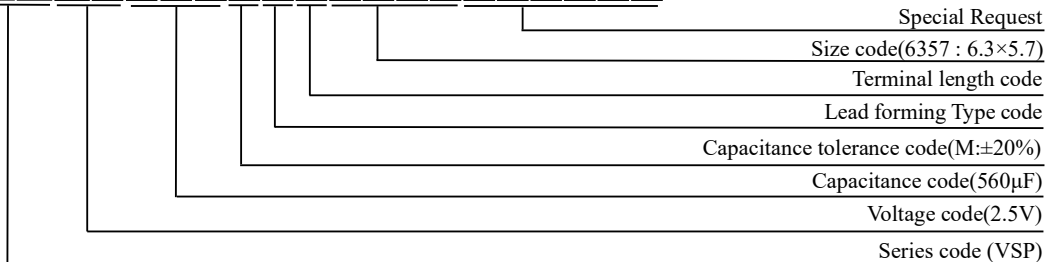
Code	Case size	ΦD	L	α	A	B	C	W	P
0557	5×5.7	5	5.7	0.3	5.3	5.3	5.9	0.5~0.8	1.4
6343	6.3×4.3	6.3	4.3	+0.4 -0.3	6.6	6.6	7.3	0.5~0.8	2.1
6357	6.3×5.7	6.3	5.7	0.3	6.6	6.6	7.3	0.5~0.8	2.1
6309	6.3×9	6.3	9	1	6.6	6.6	7.3	0.7~1.1	2.1
0867	8×6.7	8	6.7	0.3	8.3	8.3	9	0.7~1.1	3.2
0897	8×9.7	8	9.7	0.5	8.3	8.3	9	0.7~1.1	3.2
08B7	8×11.7	8	11.7	0.5	8.3	8.3	9	0.7~1.1	3.2

◆ MARKING



◆ PART NUMBER SYSTEM (Example : 2.5V 560µF)

V S P 0 E 5 6 1 M C B 6 3 5 7



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



VSP Series

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	ESR 100~300KHz (mΩmax)	Rated Ripple current (mArms/ 105°C, 100KHz)	Tanδ max	Leakage Current (μA max)	Part Number
2.5 (0E)	180	5×5.7	21	2670	0.12	300	VSP0E181MCB0557
	330	5×5.7	15	3150	0.12	300	VSP0E331MCB0557
	330	6.3×4.3	17	3500	0.12	413	VSP0E331MCB6343
	390	6.3×5.7	15	3160	0.12	344	VSP0E391MCB6357
	560	6.3×5.7	16	3600	0.12	420	VSP0E561MCB6357
	560	6.3×5.7	10	3870	0.12	500	VSP0E561MCB6357E
	680	8×6.7	13	4100	0.12	510	VSP0E681MCB0867
4.0 (0G)	330	6.3×5.7	15	3160	0.12	396	VSP0G331MCB6357
	1500	8×11.7	12	4700	0.12	1800	VSP0G152MCB08B7
6.3 (0J)	100	5×5.7	24	2500	0.12	300	VSP0J101MCB0557
	120	5×5.7	24	2500	0.12	300	VSP0J121MCB0557
	220	5×5.7	12	3500	0.12	700	VSP0E221MCB0557
	220	6.3×4.3	17	3160	0.12	693	VSP0J221MCB6343
	220	6.3×5.7	15	3160	0.12	416	VSP0J221MCB6357
	330	6.3×5.7	17	3600	0.12	624	VSP0J331MCB6357
	470	8×11.7	15	3950	0.12	888	VSP0J471MCB08B7
	560	6.3×9	10	4700	0.12	706	VSP0J561MCB6309
10 (1A)	330	8×11.7	17	3950	0.12	990	VSP1A331MCB08B7
16 (1C)	100	6.3×5.7	24	2490	0.12	320	VSP1C101MCB6357
	180	8×9.7	16	3890	0.12	576	VSP1C181MCB0897
	270	6.3×9	9	5300	0.12	864	VSP1C271MCB6309
	270	8×9.7	16	3890	0.12	864	VSP1C271MCB0897
	47	6.3×5.7	30	2500	0.12	588	VSP1E470MCB6357
25 (1E)	100	8×9.7	24	3300	0.12	500	VSP1E101MCB0897
	120	8×9.7	22	3500	0.12	600	VSP1E121MCB0897