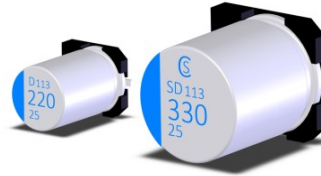


# CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



## VSD Series NEW

- Super low ESR at a high frequency ranged
- Hight voltage and high capacitance
- 2,000 hours at 105°C



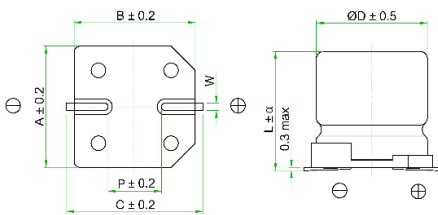
### ◆ SPECIFICATIONS

Item	Performance Characteristics								
Category Temperature Range	-40 ~ +105°C								
Working Voltage Range	25 ~ 63Vdc								
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(-40°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. <table border="1" style="margin-left: 20px;"> <tr> <td>Capacitance change</td> <td>≦ ±20% of the initial value</td> </tr> <tr> <td>ESR</td> <td>≦ 150% of the specified value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≦ 150% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≦ specified value</td> </tr> </table>	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
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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. <table border="1" style="margin-left: 20px;"> <tr> <td>Capacitance change</td> <td>≦ ±20% of the initial value</td> </tr> <tr> <td>ESR</td> <td>≦ 150% of the specified value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≦ 150% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≦ specified value</td> </tr> </table>	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
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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.

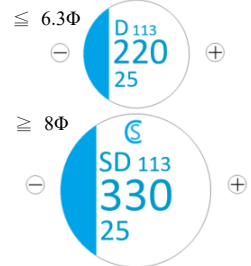
### ◆ DIMENSIONS (mm)



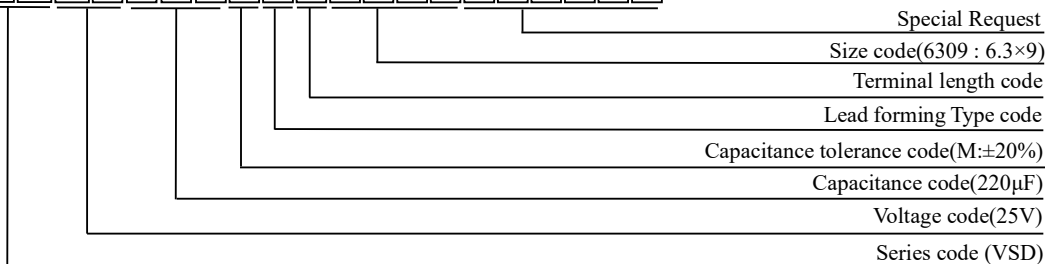
### ◆ LEAD

Code	Case size	ΦD	L	α	A	B	C	W	P
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
1008	10×8	10	8	0.5	10.3	10.3	11	0.7~1.1	4.6

### ◆ MARKING



### ◆ PART NUMBER SYSTEM ( Example : 25V 220µF )



# CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



## VSD Series **NEW**

### ◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	ESR 100~300KHz (mΩmax)	Rated Ripple current (mA rms/ 105°C, 100KHz)	Tanδ max	Leakage Current (μA max)	Part Number
25 (1E)	100	6.3×5.7	30	3000	0.12	500	VSD1E101MCB6357
	220	6.3×9	25	3200	0.12	550	VSD1E221MCB6309
	330	10×8	30	3100	0.12	825	VSD1E331MCB1008
	330	8×9.7	18	4650	0.12	825	VSD1E331MCB0897
	390	8×11.7	25	4800	0.12	1950	VSD1E391MCB08B7
	470	8×12.7	18	4100	0.12	2350	VSD1E471MCB08C7
	560	8×12.7	20	4650	0.12	2800	VSD1E561MCB08C7
35 (1V)	100	6.3×9	40	2300	0.12	350	VSD1V101MCB6309
	100	8×6.7	35	2100	0.12	700	VSD1V101MCB0867
63 (1J)	22	6.3×9	49	1500	0.12	500	VSD1J220MCB6309