

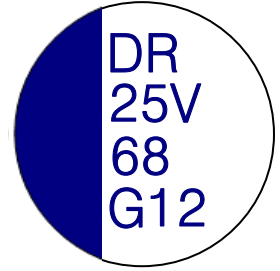


# Conductive Polymer Aluminum Solid Capacitor DR Cap

**VV** series

■ **Features**

- Low ESR at a high frequency range
- High ripple current capability
- Guaranteed at 105°C for 2000 hrs



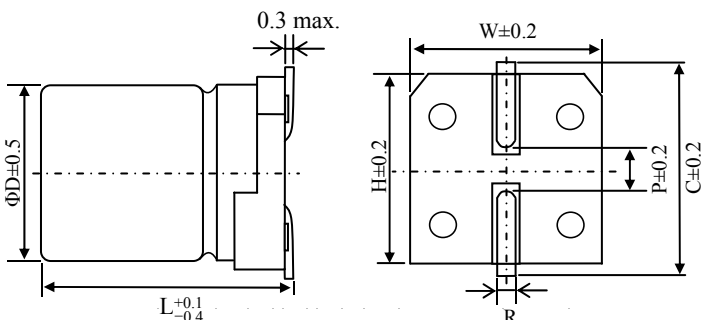
■ **Applications**

- SPS, D/D Converter, D/A Inverter
- MB, VGA, Navigator, Server
- PDP/LCD TV, LCD Monitor
- RoHS compliance and lead-free

## Specifications

Items	Characteristics								
Category Temperature Range	-55 ~ +105°C								
Rated Working Voltage Range	20 ~ 35 Vdc								
Nominal Capacitance Range	6.8 ~ 330 μF								
Capacitance Tolerance	±20% (M) (120Hz, 20°C)								
DC Leakage Current	Value in characteristics table (After rated voltage applied for 2 minutes)								
Dissipation Factor (tanδ)	Value in characteristics table								
ESR (100 K~300 KHz, 20°C)	Value in characteristics table								
Temperature Characteristic Impedance Ratio at 100 KHz	<table border="1"> <tr> <td>-55°C</td> <td>Z / Z<sub>20°C</sub></td> <td>0.75~1.25</td> </tr> <tr> <td>+105°C</td> <td>Z / Z<sub>20°C</sub></td> <td>0.75~1.25</td> </tr> </table>	-55°C	Z / Z <sub>20°C</sub>	0.75~1.25	+105°C	Z / Z <sub>20°C</sub>	0.75~1.25		
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+105°C	Z / Z <sub>20°C</sub>	0.75~1.25							
Load Life (After 105°C, 2000 hrs, rated voltage applied)	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial measured value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 150% of the specified value</td> </tr> <tr> <td>ESR</td> <td>Less than 150% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Less than the specified value</td> </tr> </table>	Capacitance change	Within ±20% of the initial measured value	Dissipation Factor	Less than 150% of the specified value	ESR	Less than 150% of the specified value	Leakage Current	Less than the specified value
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Dissipation Factor	Less than 150% of the specified value								
ESR	Less than 150% of the specified value								
Leakage Current	Less than the specified value								
Moisture Resistance (After 60°C, 90~95%RH, 1000 hrs, no voltage)	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial measured value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 150% of the specified value</td> </tr> <tr> <td>ESR</td> <td>Less than 150% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Less than the specified value</td> </tr> </table> <p>* Leakage Current should be tested after voltage treatment.</p>	Capacitance change	Within ±20% of the initial measured value	Dissipation Factor	Less than 150% of the specified value	ESR	Less than 150% of the specified value	Leakage Current	Less than the specified value
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Dissipation Factor	Less than 150% of the specified value								
ESR	Less than 150% of the specified value								
Leakage Current	Less than the specified value								
Reverse Voltage Guarantee	Less than 10% of the rated voltage								

## Dimensions (mm)



Size Code	φD	L	W	H	C	R	P
C06 6.3		6	6.6	6.6	7.3	0.5~0.8	2.1
E07 8		7	8.3	8.3	9	0.5~0.8	3.2
E12 8		12	8.3	8.3	9	0.8~1.1	3.2
F12 10		12.7	10.3	10.3	11	0.8~1.1	4.6



# Conductive Polymer Aluminum Solid Capacitor DR Cap

## Table VV series Characteristics List

Rated Voltage (V)	Nominal Capacitance (120Hz, 20°C) (μF)	Size Code	φD	L	ESR (100K~300KHz) (mΩ) (max)	Max Ripple Current (100KHz, 105°C) (mA rms)	Leakage Current (μA) (max)	DF (tanδ) (120Hz, 20°C) (max)	Part Number
20	22	C06	6.3	6	60	1450	88	0.10	DRVV0022M20C06
	27 C06		6.3	6	60	1450	108	0.10	DRVV0027M20C06
	33	E07	8	7	45	1890	132	0.12	DRVV0033M20E07
	47 E07		8	7	45	1890	188	0.12	DRVV0047M20E07
	100	E12	8	12	24	3320	400	0.15	DRVV0100M20E12
	150 F	12	10	12.7	20	4320	600	0.15	DRVV0150M20F12
25	6.8	C06	6.3	6	80	1200	34	0.10	DRVV068M25C06
	10 C04		6.3	4.2	60	1450	120	0.10	DRVV0010M25C04
	10	C06	6.3	6	60	1500	120	0.10	DRVV0010M25C06
	22 C06		6.3	6	50	2000	120	0.10	DRVV0022M25C06
	27	C06	6.3	6	40	2100	135	0.10	DRVV0027M25C06
	33 E07		8	7	30	2980	165	0.12	DRVV0033M25E07
	47	C06	6.3	6	30	2500	235	0.12	DRVV0047M25C06
	68 E07		8	7	45	2600	340	0.12	DRVV0068M25E07
	100	E12	8	12	25	3320	500	0.12	DRVV0100M25E12
35	10 C06		6.3	6	75	1500	70	0.12	DRVV0010M35C06
	15	C06	6.3	6	75	1500	70	0.12	DRVV0015M35C06

### Frequency coefficient for ripple current

Frequency	100Hz ≤ f < 1 KHz	1 KHz ≤ f < 10 KHz	10 KHz ≤ f < 100 KHz	100 KHz ≤ f ≤ 500 KHz
Coefficient	0.05	0.3	0.7	1