

**PHV SERIES**
**UPGRADE**
**Load Life : 135°C 2000~4000 hours (Hybrid Type), Chip Type**

- High Temperature(135°C), High Ripple Current
- AEC-Q200.

RoHS compliance

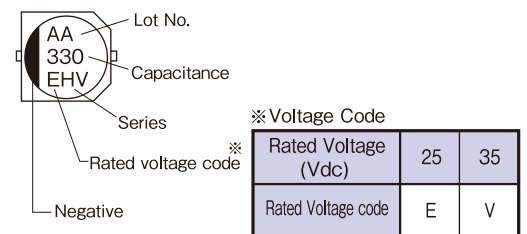

**SPECIFICATIONS**

Items	Characteristics								
Category Temperature Range	-55~+135°C(150°C)								
Rated Voltage Range	25~35Vdc								
Capacitance Tolerance	±20% (20°C, 120Hz)								
Leakage Current(MAX)	The value is shown "STANDARD SIZE" table (After 2 minutes)								
Dissipation Factor(MAX)	The value is shown "STANDARD SIZE" table ( 20°C, 120Hz)								
Test Condition	Endurance After applying rated voltage with rated ripple current for 4000 hours (φ6.3:2000hours) at 125°C or 135°C, the capacitors shall meet the criteria.								
	Biased Humidity After applying rated voltage for 2000 hours at 85°C and humidity of 85%, the capacitors shall meet the criteria.								
	Over Temperature Proof After applying rated voltage for 300 hours (φ6.3:150hours) at 150°C, the capacitors shall meet the criteria.								
	Criteria								
	<table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>E.S.R</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the initial specified value.</td> </tr> </table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	E.S.R	Not more than 200% of the initial specified value.	Leakage Current	Not more than the initial specified value.
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Dissipation Factor	Not more than 200% of the specified value.								
E.S.R	Not more than 200% of the initial specified value.								
Leakage Current	Not more than the initial specified value.								
Low Temperature Stability Impedance Ratio(MAX)	$Z(-55^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 2.0$ (100kHz) $Z(-25^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 1.5$								

**DIMENSIONS** (mm)

φD	L	A <sub>1</sub>	B <sub>1</sub>	C	W <sub>1</sub>	P
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5

Vibration proof package is also available for φ8 and φ10

**MARKING**

**MULTIPLIER FOR RIPPLE CURRENT**

Frequency (Hz)	120	1k	10k	100k≤
Coefficient	0.05	0.30	0.70	1.00

**STANDARD SIZE**

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	tanδ (120Hz, 20°C)	Leakage Current (μA/2min)	E.S.R. (mΩmax,)		Rated Ripple Current (mA rms/100kHz)	
					20°C, 100kHz	-40°C, 10kHz	135°C	125°C
25	56	6.3×6.1	0.14	14.0	50	75	900	1400
	100	6.3×8	0.14	25.0	30	45	1400	2200
	220	8×10.5	0.14	55.0	22	33	1600	2900
	330	10×10.5	0.14	82.5	20	30	2000	3600
35	47	6.3×6.1	0.12	16.4	60	90	900	1400
	68	6.3×8	0.12	23.8	35	53	1400	2200
	150	8×10.5	0.12	52.5	22	33	1600	2900
	270	10×10.5	0.12	94.5	20	30	2000	3600

**PART NUMBER**

□□□	PHV	□□□□□	M	□□□	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Case Size