# Panasonic Aluminum Electrolytic Capacitors (SMD Type)

### **Surface Mount Type**

Series: HC Type: V







#### **Features**

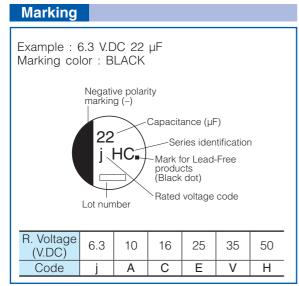
• Endurance: 105 °C 3000 h to 5000 h

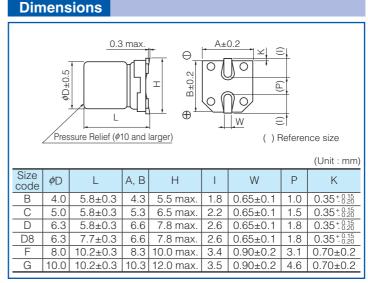
◆ Vibration-proof product is available upon request. (\$\phi 8\$ mm and larger)

RoHS compliant

Specifications						
Category temperature range	−40 °C to +105 °C					
Rated voltage range	6.3 V.DC to 50 V.DC					
Capacitance range	1 μF to 1000 μF					
Capacitance tolerance	±20 % (120 Hz/+20 °C)					
Leakage current	I ≤ 0.01 CV or 3 (μA) After 2 minutes (Whichever is greater)					
Dissipation factor (tan $\delta$ )	Please see the attached characteristics list					
Endurance	After applying rated working voltage for $+105$ °C±2 °C and then being stabilized at $+20$ °C, Capacitors shall meet the following limits. $\phi$ 4 to $\phi$ 6.3 (3000 hours After applying rated working voltage) $\phi$ 8 to $\phi$ 10 (5000 hours After applying rated working voltage)  Capacitance change   Within ±30 % of the initial value   $\tan \delta$   $\leq$ 300 % of the initial limit   DC leakage current   Within the initial limit					
Shelf life	After storage for 1000 hours at $+105$ °C $\pm 2$ °C with no voltage applied and then being stabilized at $+20$ °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)					
Posistanos to	Capacitance change	Within ±10 % of the initial value				
Resistance to soldering heat	tan $\delta$	Within the initial limit				
	DC leakage current	t Within the initial limit				
AEC-Q200	AEC-Q200 compliant					

Frequency correction factor for ripple current									
Frequency (Hz)	50, 60	120	1 k	10 k to					
Correction factor	0.70	1.00	1.30	1.70					







# **Aluminum Electrolytic Capacitors (SMD Type)**

### **Characteristics list**

Endurance: 105 °C 3000 h (\$\phi 8\$, \$\phi 10: 5000 h)

Rated voltage (V.DC)		Case size (mm)			Specification				Min. Packaging Q'ty
		φD	L	Size code	Ripple current (120 Hz) (+105 °C) (mA r.m.s.)	tan δ (120 Hz) (+20 °C)	Part No.	Reflow	Taping (pcs)
6.3	22	4	5.8	В	26	0.30	EEEHC0J220R	(1)	2000
	47	5	5.8	С	46	0.30	EEEHC0J470R	(1)	1000
	100	6.3	5.8	D	71	0.30	EEEHC0J101P	(1)	1000
	220	6.3	7.7	D8	101	0.30	EEEHC0J221XP	(1)	900
	330	8	10.2	F	230	0.30	EEEHC0J331P	(2)	500
	1000	10	10.2	G	313	0.50	EEEHC0J102P	(2)	500
10	33	5	5.8	С	43	0.26	EEEHC1A330R	(1)	1000
	220	8	10.2	F	160	0.26	EEEHC1A221P	(2)	500
	10	4	5.8	В	28	0.20	EEEHC1C100R	(1)	2000
	22	5	5.8	С	39	0.20	EEEHC1C220R	(1)	1000
16	47	6.3	5.8	D	70	0.20	EEEHC1C470P	(1)	1000
	100	6.3	7.7	D8	81	0.20	EEEHC1C101XP	(1)	900
	470	10	10.2	G	340	0.20	EEEHC1C471P	(2)	500
	33	6.3	5.8	D	65	0.16	EEEHC1E330P	(1)	1000
25	47	6.3	7.7	D8	65	0.16	EEEHC1E470XP	(1)	900
25	100	8	10.2	F	130	0.16	EEEHC1E101P	(2)	500
	330	10	10.2	G	238	0.16	EEEHC1E331P	(2)	500
	4.7	4	5.8	В	15	0.14	EEEHC1V4R7R	(1)	2000
	10	5	5.8	С	28	0.14	EEEHC1V100R	(1)	1000
35	22	6.3	5.8	D	55	0.14	EEEHC1V220P	(1)	1000
	33	6.3	7.7	D8	57	0.14	EEEHC1V330XP	(1)	900
	220	10	10.2	G	220	0.14	EEEHC1V221P	(2)	500
	1	4	5.8	В	10	0.12	EEEHC1H1R0R	(1)	2000
	2.2	4	5.8	В	16	0.12	EEEHC1H2R2R	(1)	2000
50	3.3	4	5.8	В	16	0.12	EEEHC1H3R3R	(1)	2000
	4.7	5	5.8	С	23	0.12	EEEHC1H4R7R	(1)	1000
	10	6.3	5.8	D	35	0.12	EEEHC1H100P	(1)	1000
	22	6.3	7.7	D8	49	0.12	EEEHC1H220XP	(1)	900
	33	8	10.2	F	91	0.12	EEEHC1H330P	(2)	500
	47	8	10.2	F	100	0.12	EEEHC1H470P	(2)	500
	100	10	10.2	G	160	0.12	EEEHC1H101P	(2)	500

<sup>·</sup> Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

<sup>·</sup> When requesting vibration-proof product, please put the last "V" instead to "P"

## **Mouser Electronics**

**Authorized Distributor** 

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### Panasonic:

EEE-HC0J101P EEE-HC0J102P EEE-HC0J220R EEE-HC0J221XP EEE-HC0J331P EEE-HC0J470R EEE-HC1A221P EEE-HC1A330R EEE-HC1C100R EEE-HC1C101XP EEE-HC1C220R EEE-HC1C470P EEE-HC1C471P EEE-HC1E101P EEE-HC1E330P EEE-HC1E331P EEE-HC1E470XP EEE-HC1V100R EEE-HC1V220P EEE-HC1V221P EEE-HC1V330XP EEE-HC1V4R7R EEE-HC1H100P EEE-HC1H101P EEE-HC1H1R0R EEE-HC1H220XP EEE-HC1H2R2R EEE-HC1H330P EEE-HC1H3R3R EEE-HC1H470P EEE-HC1H4R7R EEE-HC1HR47R EEE-HC1HR47R EEE-HC1HR22R