

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

- Low ESR and high ripple current are realized.
- HT1 is resist to vibration. (30G guaranteed)
- Equivalent to conductive polymer type Aluminum Electrolytic Capacitor.
(There are little characteristics change by temperature and frequency)
- Guaranteed 105°C, 10000 hours.
- Environmental : GREEN CAP™, RoHS compliance.

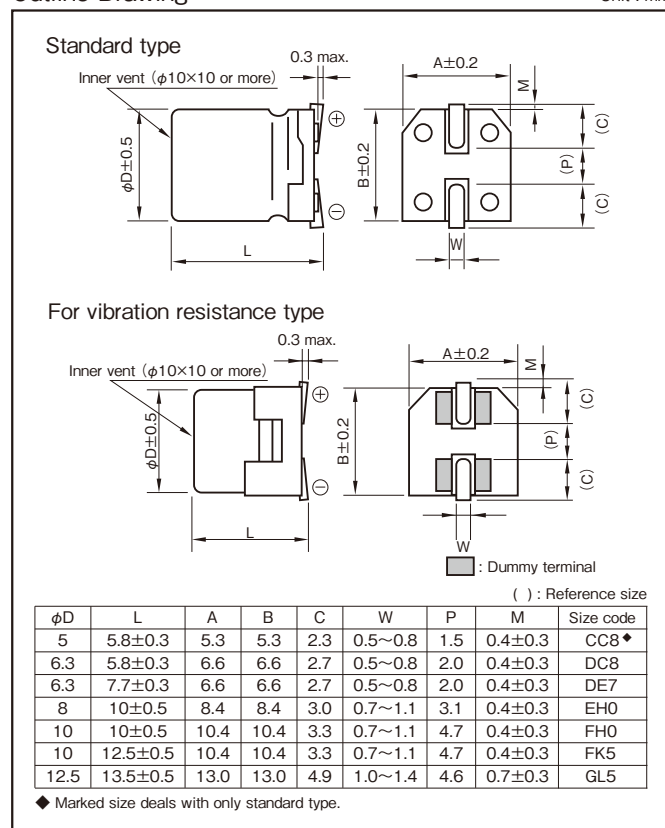


Specifications

Item	Performance					
Category temperature range (°C)	-55 to +105					
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)					
Leakage current (μA) (max.)	0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V) (20°C)					
Tangent of loss angle (tanδ)	Rated voltage (V)	25	35	50	63	80
	tanδ (max.)	0.14	0.12	0.10	0.08	0.08
(20°C, 120Hz)						
Characteristics at high and low temperature	Impedance ratio (max.)	Z-25°C/Z+20°C		1.5		
		Z-55°C/Z+20°C		2.0		
(100kHz)						
Endurance (105°C) (Applied ripple current)	Test time	10000 hours				
	Leakage current	The initial specified value or less				
	Percentage of capacitance change	Within ±30% of initial value				
	Tangent of the loss angle	200% or less of the initial specified value				
	ESR change	200% or less of the initial specified value				
Shelf life (105°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1.					

Outline Drawing

Unit : mm



Refer to individual page.
(Soldering conditions, Land pattern size, The taping specifications)

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz) Rated voltage (V)	120	1k	10k	100k or more
25 to 80	0.10	0.30	0.60	1

Product code system (*For general product)

φ8 or less (example : 35V150μF, Standard type)

RS*	HV1	151	M	1G	EHO	002	E
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

φ10 (example : 35V270μF, Standard type)

RS*	HV1	271	M	1G	FH0	002	EX
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

φ12.5 (example : 35V560μF, Standard type)

RS*	HV1	561	M	1G	GL5	005	E
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Taping and packing code	Additional code

- For vibration resistance type should change Series code "HV1" into "HT1".
- For details, refer to the various "Product Code System" pages.

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Standard ratings (◆Marked: doesn't supports vibration resistance type)

Rated voltage (V) Rated capacitance (μF)	25 (1T)			35 (1G)			50 (1U)			63 (4E)		
	Item Case φD×L(mm)	ESR (mΩ max.)	Rated ripple current (mA rms)	Case φD×L(mm)	ESR (mΩ max.)	Rated ripple current (mA rms)	Case φD×L(mm)	ESR (mΩ max.)	Rated ripple current (mA rms)	Case φD×L(mm)	ESR (mΩ max.)	Rated ripple current (mA rms)
10	—	—	—	—	—	—	◆ 5×5.8	120	750	6.3×5.8	120	1000
22	—	—	—	◆ 5×5.8	100	900	6.3×5.8	80	1100	6.3×7.7	80	1500
33	◆ 5×5.8	80	900	—	—	—	6.3×7.7	40	1600	8×10	40	1600
47	—	—	—	6.3×5.8	60	1300	—	—	—	—	—	—
56	6.3×5.8	50	1300	—	—	—	—	—	—	10×10	30	1800
68	—	—	—	6.3×7.7	35	2000	8×10	30	1800	—	—	—
100	6.3×7.7	30	2000	—	—	—	10×10	28	2000	10×12.5	26	2500
120	—	—	—	—	—	—	—	—	—	12.5×13.5	22	3500
150	—	—	—	8×10	27	2300	10×12.5	24	3000	—	—	—
220	8×10	27	2300	—	—	—	—	—	—	—	—	—
270	—	—	—	10×10	20	2500	—	—	—	—	—	—
330	10×10	20	2500	—	—	—	12.5×13.5	20	4000	—	—	—
390	—	—	—	10×12.5	18	3500	—	—	—	—	—	—
560	10×12.5	18	3500	12.5×13.5	15	4500	—	—	—	—	—	—
820	12.5×13.5	15	4500	—	—	—	—	—	—	—	—	—

Rated voltage (V) Rated capacitance (μF)	80 (1R)		
	Item Case φD×L(mm)	ESR (mΩ max.)	Rated ripple current (mA rms)
22	8×10	45	1550
33	10×10	36	1700

(Note) Rated ripple current : 105°C, 100kHz ; ESR : 20°C, 100kHz