

Vertical Chip Type Aluminum Electrolytic Capacitors For Audio VVM series

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

- New developed Al-Foil and Electrolyte for Audio grade allow lower distortion.
- · New range of bright and smooth sound is achieved in SMD area.
- Guaranteed 2000 hours 105℃.
- Environmental : GREEN CAP™ , RoHS compliance.







High temperature, Long life

VVM



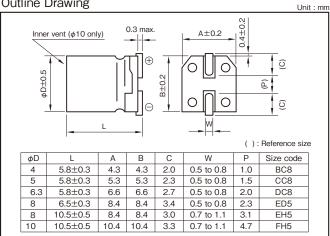


Marking color: Black print

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	Rated vo	Rated voltage (V)			16	25	35	50	_		
(tanδ)	tanδ (i	tanδ (max.)			0.20	0.16	0.13	0.12			
	(20°C,120										
	Rated vol	6.3	10	16	25	35	50	¬ !			
Characteristics at high and		Z-25°C/Z+20°C	2	2	2	2	2	2	7 !		
low temperature	Impedance ratio (max.)	Z-55°C/Z+20°C	8	4	4	3	3	3	7 !		
									(120Hz)		
	Test	Test time			2000 hours						
E (105°0)	Leakage	The initial specified value or less									
Endurance (105°C)	Percentage of cap	Within ±30% of initial value									
	Tangent of th	e loss angle	300% or less of the initial specified value								
Shelf life (105℃)	Test time: 1000hours; other items are same as the endurance. Voltage application treatment: According to JIS C5101-4 4.1										
Applicable standards	JIS C5101 - 1, - 18 (IEC 60384 - 1, - 18)										

Outline Drawing



Refer to individual page.

(Soldering conditions, Land pattern size, The taping specifications)

Coefficient of Frequency for Rated Ripple Current

Rated v	Frequency (Hz)	50	120	1k	10k • 100k	
	6.3 to 16	0.80	1	1.15	1.25	
25 to 35		0.80	1	1.25	1.40	
50	1 to 3.3μF	0.50	1	1.35	1.50	
	4.7μF or more	0.70	1	1.35	1.50	

Product code system : 6.3V220µF (*For general product)									
RS*	VVM	221	М	1J	EH5	002	PU		
Category	Series code	capacitance code	Cap tol.	Voltage code	Size code	Taping and packing code	Additional code		

For details, refer to the various "Product Code System" pages.

Standard Ratings

Rated voltage (V)	ated voltage (V) 6.3 (1J)		10 (1L)		16 (1E)		25 (1T)		35 (1G)		50 (1U)	
Rated Item	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current
capacitance (µF)	φD×L (mm)	(mArms)	φD×L (mm)	(mArms)	φD×L (mm)	(mArms)	ϕ D×L (mm)	(mArms)	ϕ D×L (mm)	(mArms)	ϕ D×L (mm)	(mArms)
1	_	_	_	_	_	_	_	_	_	_	4×5.8	7
2.2	_	_	_	_	_	_	_	_	_	_	4×5.8	10
3.3	_	_	_	_	_	_	_	_	_	_	4×5.8	12
4.7	_	_	_	_	4×5.8	11	4×5.8	13	4×5.8	14	5×5.8	17
10	_	_	4×5.8	15	4×5.8	17	5×5.8	21	5×5.8	24	6.3×5.8	29
22	4×5.8	21	5×5.8	26	5×5.8	28	6.3×5.8	37	6.3×5.8	41	8×6.5	52
33	5×5.8	29	5×5.8	32	6.3×5.8	41	6.3×5.8	45	8×6.5	62	8×10.5	75
47	5×5.8	35	6.3×5.8	44	6.3×5.8	48	8×6.5	66	8×10.5	86	8×10.5	90
100	C 0 V F 0	60	0 8×6.5	79	8×6.5	86	8×10.5	113	10×10.5	145	10×10.5	151
100	6.3×5.8	60			8×10.5	101						
220	8×10.5	5 127	8×10.5	137	8×10.5	150	10×10.5	194	10×10.5	216	_	_
220					10×10.5	174					_	-
330	8×10.5	156	10×10.5	194	10×10.5	213	_	_	_	-	_	_
470	10×10.5	215	10×10.5	232	10×10.5	254	_	_	_	_	_	_