

Data Sheet

Customer: _____

Product : SMD Aluminum Electrolytic Capacitors –EVV Series _____

Size : 8x10.5mm~10x13mm _____

Issued Date :18-October-2024 _____

Edition : Ver.1 _____

Record of change

Date	Ver.	Description	Page
18-October-2024	1		

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18-October-2024	18-October-2024	18-October-2024	
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Features

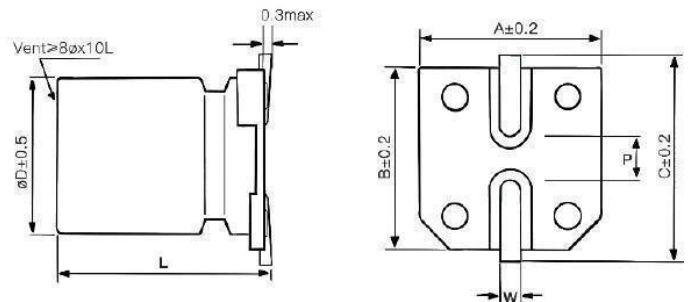
- 8ø ~ 10ø, 105°C, 5000 hours assured
- Designed for High Voltage
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB

Characteristics

Voltage Range	400V				
Capacitance Range	2.2 ~ 10uF				
Temperature Range	-40°C ~ +105°C				
Capacitance Tolerance	±20% (120Hz / +20°C)				
Leakage Current	$I \leq 0.04CV + 100\mu A$, after 5 minutes				
Dissipation Factor (tanδ)Max (at 20°C, 120Hz)	Rated Voltage (V)	400			
	D.F.(tanδ)	0.25			
Characteristics at low temperature	Rated Voltage (V)	400	Impedance ratio at 120Hz		
	Z (-25°C) / Z (+20°C)	6			
	Z (-40°C) / Z (+20°C)	10			
Endurance	After applying rated working voltage for 5000 hours at +105°C ±2°C, and then being stabilized at +20°C, capacitors shall meet the following limits.				
	Capacitance change	Within ±30% of the initial value			
	Dissipation factor (tanδ)	Less than 300% of the initial value			
	Leakage current	Within the initial limit			
Shelf life	After storage for 1000 hours at +105°C ±2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the limits specified in endurance.				
Resistance to Soldering heat	After reflow soldering and then being stabilized at +20°C, capacitors shall meet the following limits.				
	Capacitance change	Within ±10% of the initial value			
	Dissipation factor (tanδ)	Within the initial limit			
	Leakage current	Within the initial limit			
Frequency correction factor for ripple current	Frequency	50H	120H	1kHz	10kHz ≤
	Correction Factor	0.7	1.0	1.3	1.4

Diagram of dimensions

SIZE	D φ	L	A	B	C	W	P±0.2
E	8	10.5±0.5	8.3	8.3	9.2	0.7~1.2	3.2
E3	8	13±0.5	8.3	8.3	9.2	0.7~1.2	3.2
F	10	10.5±0.5	10.3	10.3	11.2	0.7~1.2	4.4
F3	10	13±0.5	10.3	10.3	11.2	0.7~1.2	4.4



Part Numbering System

EVV □ □ □ M □ □ R □
Series Capacitance Tolerance Rated Voltage Package Case Size

Case size & Maximum Ripple Current (mA rms 105°C 120Hz)

Cap.	400	
uF	Size	RC
2.2	E	15
3.3	E	20
4.7	E / E3 / F	25 / 30 / 30
5.6	E3 / F	35 / 35
6.8	F	45
8.2	F3	55
10	F3	60