Data Sheet

Customer:

Product : SMD Aluminum Electrolytic Capacitors–ETV Series

Size : 6.3x7.7mm~12.5x13.5mm

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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ETV SERIES

Features

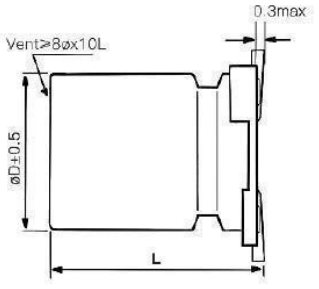
- 6.3ø ~ 12.5ø, 125℃, 2000 ~ 3000 hours assured
- Low impedance capacitors
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB

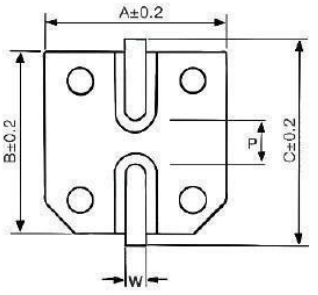
Characteristics

Voltage Range	10V ~ 35V					
Capacitance Range	33 ~ 1000 uF					
Temperature Range	-40℃ ~ +125℃					
Capacitance Tolerance	±20% (120Hz / +20℃)					
Leakage Current	I≦0.01CV or 3μA whichever is greater (after 2 minutes)					
Dissipation Factor (tanδ)Max (at 20℃, 120Hz)	Rated Voltage (V)	10	16	25	35	
	D.F.(tanδ)	0.30	0.23	0.18	0.16	
Characteristics at low temperature	Rated Voltage (V)	10	16	25	35	Impedance ratio at 120Hz
	Z (-40℃) / Z (+20℃)	12	8	6	4	
Endurance	After applying rated working voltage for 2000/3000 hours at +125℃ ± 2℃, and then being stabilized at +20℃, capacitors shall meet the following limits.					
	Test Time	øD = 6.3mm : 2000H øD = 8~12.5mm : 3000H				
	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 +125℃ ± 2℃ with no voltage applied and then being stabilized at +20℃, capacitors shall meet the limits specified in endurance.					
Resistance to Soldering heat	After reflow solding and then being stabilized at +20℃, 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	50Hz	120H	300H	1kHz	10kHz≦
	Correction Factor	0.35	0.5	0.64	0.83	1.0

Diagram of dimensions

SIZE	D	L	A	B	C	W	P±0.2
C8	6.3	7.7±0.3	6.6	6.6	7.3	0.5~0.8	2.2
E	8	10.5±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
G	12.5	13.5±0.5	13.0	13.0	14.0	1.0~1.4	4.4





Part Numbering System

ETV	□ □ □	**M**	□ □	**R**	□
Series	Capacitance	Tolerance	Rated Voltage	Package	Case Size

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ETV SERIES

Case size & Maximum Ripple Current (mA rms 105℃ 100KHz) & Imp. (Ω 20℃ 100KHZ)

Cap. \ WV	10			16			25			35		
uF	Size	RC	Imp.	Size	RC	Imp.	Size	RC	Imp.	Size	RC	Imp.
33										C8	197	0.50
47										C8/E	197/270	0.50/0.20
100				C8/E	197/270	0.50/0.20	C8/E	197/270	0.50/0.20	E	270	0.20
220	E	270	0.20	E	270	0.20	E/F	270/500	0.20/0.15	F	500	0.15
330	E/F	270/500	0.20/0.15	F	500	0.15	F	500	0.15	F	500	0.15
470	F	500	0.15	F	500	0.15				G	1700	0.08
560										G	1700	0.08
680										G	1700	0.08
820							G	1700	0.08			
1000							G	1700	0.08			