

Data Sheet

Customer: _____

Product: SMD Aluminum Electrolytic Capacitors – ENV Series _____

Size : 4x5.5mm ~ 10x10.5mm _____

Issued Date: 15-May.-2016 _____

Edition: Ver. 1 _____

Record of change

Date	Ver.	Description	Page
15-May-2016	1		

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15-May-2016	15-May-2016	15-May-2016	
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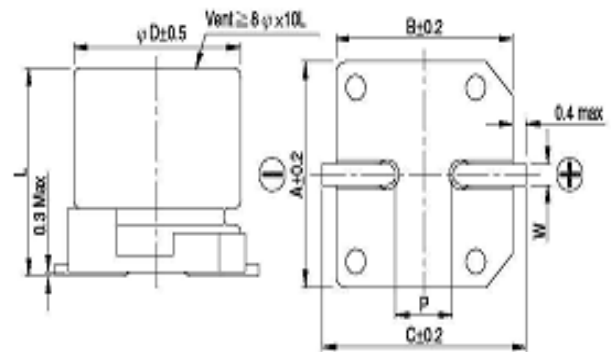
- SMD TYPE Reflow Soldering is available
- Life 2000 hours at 85°C Non-Polarized
- Available For High Density Mounting

Characteristics

Voltage Range	6.3 to 50VDC						
Capacitance Range	0.1 to 470uF						
Temperature Range	-40 to +85°C						
Capacitance Tolerance	+20% -20% (at 20°C, 120Hz)						
Leakage Current	I ≤ 0.05CV or 10uA, whichever is greater, 2 minutes after Rated Voltage applied, where C = Rated Capacitance, V = Rated DC working voltage						
Dissipation Factor (tanδ)Max(at 20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50
	D.F. (tanδ) max	0.24	0.20	0.17	0.17	0.15	0.15
Stability at Low Temperature (at 20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50
	Z-25°C/Z 20°C	4	3	2	2	2	2
	Z-40°C/Z 20°C	8	6	4	3	3	3
Load Life	After the rated voltage has been applied for 2000 hours at 85°C	Capacitance change	Within ±25% of initial value				
		D.F. tanδ	200% or less of initial specified value				
		Leakage current	Less than initial specified value				
Shelf Life	After storage for 1000 hours at 85°C, with no voltage applied and being stabilized at +20°C, Capacitor shall meet the limit specified in load life. Pre-treatment of DC working voltage applied for 30 minutes Shall be conducted before measurement.						

Diagram of dimensions

SIZE	Dφ	L	A	B	C	W	P
A	4	5.5±0.3	4.3	4.3	4.9	0.5~0.8	1.0
B	5	5.5±0.3	5.3	5.3	5.9	0.5~0.8	1.4
C	6.3	5.5±0.3	6.6	6.6	7.2	0.5~0.8	2.0
C8	6.3	7.7±0.3	6.6	6.6	7.2	0.5~0.8	2.0
D	8	6.5±0.3	8.3	8.3	9.0	0.5~0.8	2.3
E	8	10.5±0.3	8.3	8.3	9.0	0.7~1.1	3.1
F	10	10.5±0.3	10.3	10.3	11.0	0.7~1.1	4.7



Multiplier for Ripple Current vs Frequency

Frequency (Hz)	60(50)	120	500	1K	≥10K
Multiplier	0.8	1.0	1.20	1.30	1.50

Case size & Maximum Ripple Current (mA rms 85°C 120Hz)

Cap. ^{wv}	6.3		10		16		25		35		50		
	uF	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
0.1												A	1.0
0.22												A	2.0
0.33												A	2.8
0.47												A	4.0
1												A	8.4
2.2										A	8.4	A	13
3.3								A	12	A	16	A	17
4.7					A	12	A	16	A	18	B, C	20	
10			A	17	A, B	23	B, C	27	C	29	C	32	
22	A,	28	B	33	B, C	33/37	C	40	C	45	E	60	
33	B	37	C	41	C	49	C8, D	51/55	E	58	F	75	
47	C	45	C	50	C8, D	51/55	C8, D	56/60	E	64	F	100	
100	C8	65/70	C8, D	75/80	E	100	E	130					
220	E	120	E	150	F	170							
330	E	160	F	180									
470	F	190											

Part Numbering System

ENV □ □ □ □ □ □ **R** □
 Series Capacitance Tolerance Rated Voltage Package Case Size