

## *Data Sheet*

Customer: \_\_\_\_\_

Product: SMD Aluminum Electrolytic Capacitors – EMV Series \_\_\_\_\_

Size : 4x5.5mm ~ 18x16.5mm \_\_\_\_\_

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### 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 5000 hours at 105°C
- Available For High Density Mounting

**Characteristics**

<b>Voltage Range</b>	6.3 ~ 100V								
<b>Temperature Range</b>	-40°C ~ +105°C								
<b>Capacitance Tolerance</b>	±20% (at 20°C, 120Hz)								
<b>Leakage Current</b>	I≤0.01CV or 3uA, whichever is greater 2 minutes after Rated Voltage applied								
<b>Dissipation Factor (tanδ)Max</b> (at 20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100
	D.F.( tanδ)	0.32	0.28	0.22	0.16	0.13	0.12	0.089	0.07
<b>Stability at Low Temperature</b> (at 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100
	Z-25°C/Z 20°C	4	3	2	2	2	2	2	2
	Z-40°C/Z 20°C	10	7	5	3	3	3	3	3
<b>Load Life</b>	After the rated voltage has been applied for 5000 hours at 105°C	Capacitance change	Within ±30% of initial value						
		D.F. tanδ	Less than ±300% of specified value						
		Leakage current	Less than Initial specified value						
<b>Shelf Life</b>	After storage for 1000 hours at 105°C, with no voltage applied and being stabilized at +20°C, Capacitor shall meet the limit specified in load life.(Refer to JIS C5101-4 4.1)								

**Diagram of dimensions**

SIZE	Dφ	L	A	B	C	W	P±0.2
A	4	5.5±0.3	4.3	4.3	5.1	0.5~0.8	1.0
B	5	5.5±0.3	5.3	5.3	5.9	0.5~0.8	1.5
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	8.4	8.4	9.0	0.5~0.8	2.3
E	8	10.5±0.3	8.4	8.4	9.0	0.7~1.1	3.1
F	10	10.5±0.3	10.4	10.4	11.0	0.7~1.3	4.5
G	12.5	14±0.5	13.5	13.5	15.0	1.1~1.4	4.5
H	12.5	16±0.5	13.0	13.0	15.0	1.1~1.4	4.5
I	16	16.5±0.5	17.0	17.0	18.0	1.1~1.4	6.4
J	16	21.5±0.5	17.0	17.0	18.0	1.1~1.4	6.4
K	18	16.5±0.5	19.0	19.0	20.0	1.1~1.4	6.4

Size A~F refer to Fig. 1,

Size G~K refer to Fig. 2

Fig. 1

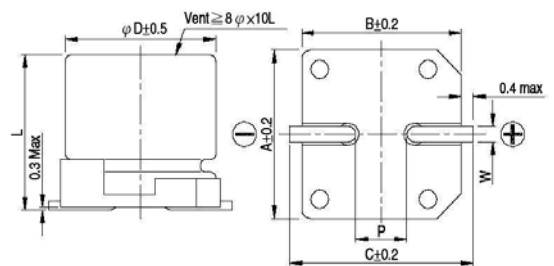
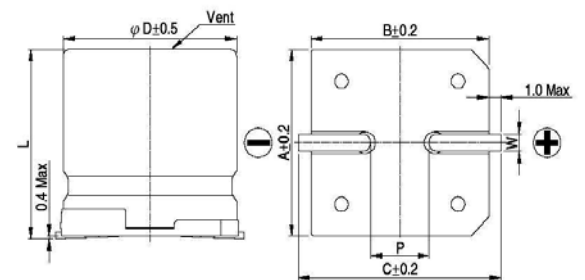


Fig. 2



**Multiplier for Ripple Current vs Frequency**

CAP(uF)\Freq(Hz)	60(50)	120	500	1K	≥10K
0.1 ≤ CAP ≤ 100	0.8	1.0	1.20	1.30	1.50
100 < CAP	0.8	1.0	1.10	1.15	1.20

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

Cap. <small>wv</small>	6.3		10		16		25	
uF	Size	RC	Size	RC	Size	RC	Size	RC
1								
2.2								
3.3								
4.7							A	13
10					A	17	A	23
22	A	22	B	28	B	30	C	40
33	B	32	B	34	C	44	C	48
47	B	36	C	48	C	50	C8	63
100	C	60	C8	79	C8	81	E	116
220	C8	110	E	140	F	216	F	240
330	E	160	F	240	F	300	F	375
470	F	260	F	280	F	320		
1000	F	340						

Cap. <small>wv</small>	35		50		63		100	
uF	Size	RC	Size	RC	Size	RC	Size	RC
1			A	6.2				
2.2			A	11				
3.3			A	14				
4.7	A	15	B	19				
10	B	25	C	30				
22	C	42	C8	52				
33	C8	57	E	80				
47	E	92	E	95				
100	F	150	F	160			H	240
220	F	280	G	280	G	320	I	340
330	G	320	H	360	H	450	I	410
470	H	410	I	510	I	540	K	540
1000	I	690	K	780				

**Part Numbering System**

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