

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		

HITANO ENTERPRISE CORP.

7F-7, No. 3, Wu Chuan 1st Road, New Taipei Industrial Park,

New Taipei City, TAIWAN, R.O.C.

Tel: +886 2 2299 1331 (Rep.)

Fax: +886 2 2298 2466, 2298 2969

Prepared by	Checked by	Approved by	Accepted by (customer)
15-May-2016	15-May-2016	15-May-2016	
Andy Hsu	Hwa Wu	Hwa Wu	

- SMD TYPE Reflow Soldering is available
- Life 5000 hours at 105°C
- Available For High Density Mounting

Characteristics

Voltage Range	6.3 ~ 100V								
Temperature Range	-40℃ ~ +105℃								
Capacitance Tolerance	±20% (at 20℃, 120Hz)								
Leakage Current	I≤0.01CV or 3uA, whichever is greater 2 minutes after Rated Voltage applied								
Dissipation Factor (tanδ)Max (at 20℃, 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
Stability at Low Temperature (at 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100
	Z-25℃/Z 20℃	4	3	2	2	2	2	2	2
	Z-40℃/Z 20℃	10	7	5	3	3	3	3	3
Load Life	After the rated voltage has been applied for 5000 hours at 105℃	Capacitance change			Within ±30% of initial value				
		D.F. tanδ			Less than ±300% of specified value				
		Leakage current			Less than Initial specified value				
Shelf Life	After storage for 1000 hours at 105℃, with no voltage applied and being stabilized at +20℃, 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

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

Fig. 1

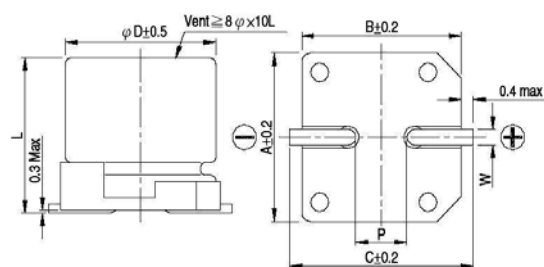
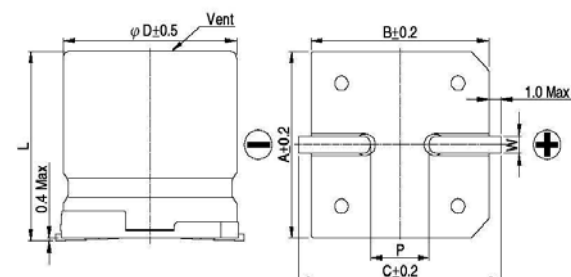


Fig. 2



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

Cap. WV	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. WV	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