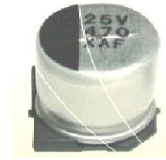


## MVE series

**+105°C, Low Impedance, Lead Free Reflow Soldering**  
对应无铅焊接, +105°C低阻抗品



## ◆ FEATURES

- Low Impedance.
- Life 2000 hours at +105°C.
- Available for high density mounting
- RoHS Compliant and lead-free.

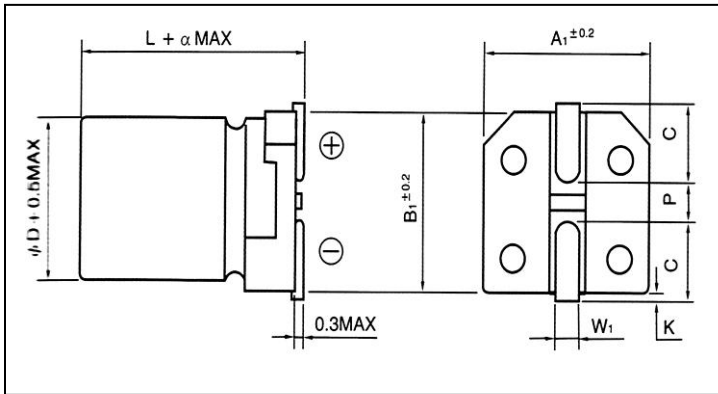
## ◆ SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-40~+105°C						
Rated Voltage Range	6.3~50V.DC						
Nominal Capacitance Range	4.7~1000μ F						
Capacitance Tolerance	±20%(120Hz,+20°C)						
Leakage Current(MAX, 20°C)	I=0.01CV or 3uA, whichever is greater. after 2 minutes with rated working voltage						
Dissipation Factor(MAX) Tanδ (20°C,120Hz)	Rated Voltage(V)	6.3	10	16	25	35	50
	Tanδ (Max)	0.26	0.19	0.16	0.14	0.12	0.10
When nominal capacitance is over 1000μ F, tanδ shall be added 0.02 to the listed value with Increase of every 1000μ F							
Load Life	After applying rated voltage with max ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements						
	Capacitance Change	Within ±30% of the initial value					
	Dissipation Factor	Not more than 200% of the specified value					
	Leakage Current	Not more than the specified value					
Low Temperature Stability Impedance Rate(MAX) (120Hz)	Rated Voltage(V)	6.3	10	16	25	35	50
	Z-25°C/Z+20°C	2	2	2	2	2	2
	Z-40°C/Z+20°C	3	3	3	3	3	3
	Z-55°C/Z+20°C	4	4	4	3	3	3

## ◆ RIPPLE CURRENT MULTIPLIER

Frequency(Hz)		120	500	10K	100K~
Coefficient	4.7uF	0.42	0.60	0.80	1.00
	10~33uF	0.45	0.75	0.90	1.00
	47~100uF	0.50	0.80	0.95	1.00
	220~1000uF	0.60	0.85	0.95	1.00

◆ CASE SIZE TABLE



ΦD	L	A1	B1	C	W1	P	K	α
4	5.4	4.3	4.3	1.8	0.5~0.8	1.0	0.5max	0
5	5.4	5.3	5.3	2.2	0.5~0.8	1.3	0.5max	0
6.3	5.4	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0
6.3	7.7	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5max	0
8	10.2	8.3	8.3	2.9	0.8~1.1	3.1	0.5max	0
10	10.2	10.3	10.3	3.2	0.8~1.1	4.5	0.5max	0
10	13.5	10.3	10.3	3.2	0.8~1.1	4.5	0.7±0.4	0
12.5	13.5	13.0	13.0	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16.0	13.0	13.0	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17.0	17.0	6.0	1.0~1.6	6.8	0.7±0.4	0.5

◆ STANDARD RATINGS

Size:ΦD×L(mm),Ripple Current(mA r.m.s/105°C,100kHz),Impedance(Ω ,MAX at 20°C 100KHz)

wv (μF)	6.3V(OJ)			10V(1A)			16V(1C)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
10							4x5.4	90	1.35
22	4x5.4						4x5.4 5x5.4	90 170	1.35 0.70
33				4x5.4	90	1.35	5*5.4	170	0.70
47	4x5.4 5x5.4	90 170	1.35 0.70				5x5.4 6.3x5.4	170 250	0.70 0.36
100	5*5.4 6.3x5.4	170 250	0.70 0.36				6.3x5.4 6.3x7.7	250 300	0.36 0.34
220	6.3x5.4 6.3x7.7	250 300	0.36 0.34	6.3x7.7	300	0.34	6.3x7.7	300	0.34
330	6.3x7.7	300	0.34				8x10.2	600	0.16
470				8x10.2	600	0.16	8x10.2	600	0.16
680				8x10.2	600	0.16	10x10.2	850	0.08
1000	8x10.2	600		10*10.2	850	0.08			

wv (μF)	25V(1E)			35V(1V)			50V(1H)		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
4.7				4x5.4	90	1.45	4x5.4	60	2.90
10				4x5.4 5x5.4	90 170	1.45 0.70	5x5.4	85	1.52
22				5x5.4 6.3x5.4	170 250	0.70 0.36	6.3x5.4	165	0.88
33	5*5.4 6.3x5.4	170 250	0.70 0.36	6.3x5.4	250	0.36	6.3x5.4	165	0.88
47	6.3x5.4	250	0.36	6.3x5.4 6.3x7.7	250 300	0.36 0.34	6.3x7.7	195	0.68
100	6.3x7.7	300	0.34	6.3x7.7 8x10.2	300 600	0.34 0.16	6.3x7.7	195	0.68
220	8x10.2	600	0.16	8x10.2	600	0.16	8x10.2	350	0.34
330	8x10.2	600	0.16	10x10.2	850	0.09	10x10.2	670	0.18
470	10x10.2	850	0.09						