

ALCHIP™-MVE 系列

表面安装 小型化 耐清洗 RoHS2 适应品

6.3 ~ 63V<sub>dc</sub>

- 额定电压6.3V~450V。
- 保证105°C 1,000~2,000 小时。
- 产品尺寸: φ4×5.2L~φ18×21.5L。
- 符合AEC-Q200。详情请另行咨询。

MVE 长寿命化 → MVL MVJ



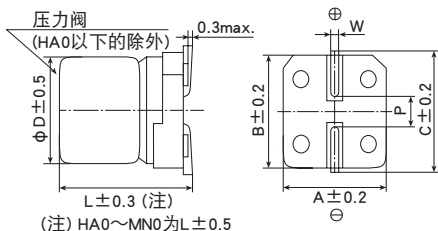
规格表

项目	性能		
工作温度范围	-40~+105°C		
额定电压范围	6.3~450V <sub>dc</sub>		
静电容量容许差	±20% (M) (20°C、120Hz)		
漏电流	额定电压 (V <sub>dc</sub> )	6.3~100V 160~450V	
	D55~JA0	I ≤ 0.01CV 或者 3μA 中任意一个较大值 (2分值)	
	KE0~MN0	I ≤ 0.03CV 或者 4μA 中任意一个较大值 (1分值) I ≤ 0.04CV + 100μA (1分值)	
I: 漏电流 (μA), C: 静电容量 (μF), V: 额定电压 (V <sub>dc</sub> ) (20°C)			
损失角正切值 (tan δ)	≤标准品一览表的值 (20°C、120Hz)		
温度特性 (阻抗比 右表值以下)	额定电压 (V <sub>dc</sub> )	6.3V 10V 16V 25V 35V 50V 63V 100V 160~250V 400~450V	
	D55~JA0	Z (-25°C) / Z (+20°C)	4 3 2 2 2 2 2 2 2 2 2
		Z (-40°C) / Z (+20°C)	12 8 6 4 3 3 3 4 4 4 4
	KE0~MN0	Z (-25°C) / Z (+20°C)	5 4 3 2 2 2 2 2 3 6
Z (-40°C) / Z (+20°C)		10 8 6 4 3 3 3 3 6 10	
(120Hz)			
耐久性	在105°C环境中, 连续加载规定时间的额定电压后, 待温度恢复到20°C进行测量时, 应满足以下要求。		
	尺寸代码	D55~F80 HA0~MN0	
	规定时间	1,000小时 2,000小时	
	静电容量变化率	≤初始值的±30% ≤初始值的±20%	
	损失角正切值	≤初始规格值的300% ≤初始规格值的200%	
	漏电流	≤初始规格值 ≤初始规格值	
高温无负荷特性	在105°C环境中, 无负荷放置1,000小时后 (D55~F80: 500小时后) 待温度恢复到20°C, 进行试验前处理 (JIS C 5101-4 4.1项) 后进行测量时, 应满足以下要求。		
	尺寸代码	D55~F80 HA0~MN0	
	静电容量变化率	≤初始值的±25% ≤初始值的±20%	
	损失角正切值	≤初始规格值的200% ≤初始规格值的200%	
	漏电流	≤初始规格值 ≤初始规格值	
	容许清洗条件		请参照 Technical note 第6项「基板清洗」 (另外, 额定电压为100V <sub>dc</sub> ~450V <sub>dc</sub> 的产品不属于基板清洗类型。)

尺寸图 (CE32形) [mm]

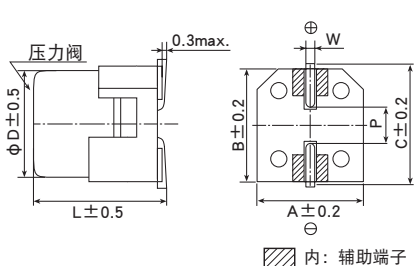
●端子代码: A

●尺寸代码: D55~MN0



●端子代码: G (耐振构造)

●尺寸代码: LH0~MN0 (带辅助端子)

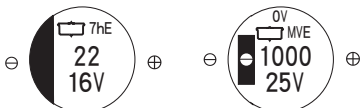


尺寸代码	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5~0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5~0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5~0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5~0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7~1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7~1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0~1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0~1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0~1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0~1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0~1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0~1.3	6.5

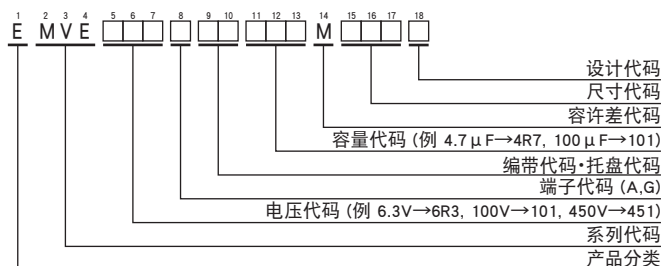
标示

标示例 (D55~JA0)  
16V22μF

标示例 (KE0~MN0)  
25V1,000μF



产品型号体系



产品型号代码的详细介绍请参考「产品型号的表示方法(贴片型)」。

额定纹波电流频率修正系数

纹波频率与标准品一览表的规定值相异时, 请使用小于乘以下表系数所得之值的值

频率修正系数

尺寸代码	静电容量 (μF)	频率 (Hz)			
		120	1k	10k	100k
D55~JA0	1.0	1.00	1.50	1.75	1.80
	2.2~10	1.00	1.30	1.40	1.50
	22~1,500	1.00	1.05	1.08	1.08
KE0~MN0	3.3~4.7	1.00	1.75	2.30	2.50
	10~68	1.00	1.50	1.75	1.80
	100~1,000	1.00	1.30	1.40	1.50
	2,200~6,800	1.00	1.05	1.08	1.08

※铝电解电容器由于在纹波电流叠加时自我发热, 温度上升而老化, 每升温5°C寿命减少一半。  
要想保持长寿命请在使用过程中降低纹波电流。

◆标准品一览表

□ 内的产品(100~450Vdc)不能进行基板清洗。

VV (Vdc)	Cap (μF)	尺寸代码	tan δ	额定纹波电流 (mA <sub>rms</sub> /105°C, 120Hz)	产品型号	VV (Vdc)	Cap (μF)	尺寸代码	tan δ	额定纹波电流 (mA <sub>rms</sub> /105°C, 120Hz)	产品型号		
6.3	22	D55	0.30	22	EMVE6R3ARA220MD55G	35	330	JA0	0.16	450	EMVE350ARA331MJA0G		
	33	E55	0.30	34	EMVE6R3ARA330ME55G		470	KE0	0.22	520	EMVE350ARA471MKE0S		
	47	E55	0.30	38	EMVE6R3ARA470ME55G		470	LH0	0.22	650	EMVE350□RA471MLH0S		
	100	F55	0.30	69	EMVE6R3ARA101MF55G		1,000	LH0	0.22	750	EMVE350□RA102MLH0S		
	220	F80	0.45	120	EMVE6R3ARA221MF80G		1,000	MH0	0.22	1,000	EMVE350□RA102MMH0S		
	330	HA0	0.40	290	EMVE6R3ARA331MHA0G		2,200	MN0	0.24	1,450	EMVE350□RA222MMN0S		
	10	470	HA0	0.45	320	EMVE6R3ARA471MHA0G	50	1.0	D55	0.12	8.0	EMVE500ARA1R0MD55G	
		680	HA0	0.45	340	EMVE6R3ARA681MHA0G		2.2	D55	0.12	12	EMVE500ARA2R2MD55G	
		1,000	JA0	0.40	410	EMVE6R3ARA102MJA0G		3.3	D55	0.12	15	EMVE500ARA3R3MD55G	
		1,500	JA0	0.45	550	EMVE6R3ARA152MJA0G		4.7	E55	0.12	20	EMVE500ARA4R4ME55G	
		2,200	KE0	0.40	680	EMVE6R3ARA222MKE0S		10	F55	0.12	32	EMVE500ARA100MF55G	
		2,200	LH0	0.40	840	EMVE6R3□RA222MLH0S		33	F80	0.14	65	EMVE500ARA330MF80G	
		3,300	KG5	0.42	850	EMVE6R3ARA332MKG5S		47	F80	0.14	80	EMVE500ARA470MF80G	
		3,300	MH0	0.42	1,000	EMVE6R3□RA332MMH0S		100	HA0	0.14	230	EMVE500ARA101MHA0G	
		4,700	LN0	0.44	1,200	EMVE6R3□RA472MLN0S		220	JA0	0.14	375	EMVE500ARA221MJA0G	
		4,700	MH0	0.44	1,200	EMVE6R3□RA472MMH0S		330	KE0	0.18	500	EMVE500ARA331MKE0S	
6,800		LN0	0.48	1,200	EMVE6R3□RA682MLN0S	330		LH0	0.18	600	EMVE500□RA331MLH0S		
6,800		MN0	0.48	1,350	EMVE6R3□RA682MMN0S	470		LH0	0.18	700	EMVE500□RA471MLH0S		
16		22	E55	0.24	30	EMVE100ARA220ME55G		470	MH0	0.18	750	EMVE500□RA471MMH0S	
		33	E55	0.24	34	EMVE100ARA330ME55G		1,000	MN0	0.18	1,200	EMVE500□RA102MMN0S	
		47	F55	0.24	48	EMVE100ARA470MF55G		63	1.0	D55	0.12	8.0	EMVE630ARA1R0MD55G
		100	F55	0.30	69	EMVE100ARA101MF55G			2.2	D55	0.12	12	EMVE630ARA2R2MD55G
	150	F80	0.35	100	EMVE100ARA151MF80G	3.3	E55		0.12	17	EMVE630ARA3R3ME55G		
	220	F80	0.35	120	EMVE100ARA221MF80G	4.7	F55		0.12	22	EMVE630ARA4R4MF55G		
	330	HA0	0.35	290	EMVE100ARA331MHA0G	10	F55		0.12	32	EMVE630ARA100MF55G		
	470	HA0	0.35	320	EMVE100ARA471MHA0G	22	F80		0.12	58	EMVE630ARA220MF80G		
	1,000	JA0	0.35	410	EMVE100ARA102MJA0G	33	HA0		0.12	140	EMVE630ARA330MHA0G		
	2,200	KG5	0.36	750	EMVE100ARA222MKG5S	47	HA0		0.12	170	EMVE630ARA470MHA0G		
	2,200	LH0	0.36	850	EMVE100□RA222MLH0S	100	JA0		0.12	310	EMVE630ARA101MJA0G		
	3,300	LH0	0.38	1,000	EMVE100□RA332MLH0S	220	KE0		0.14	470	EMVE630ARA221MKE0S		
	3,300	MH0	0.38	1,100	EMVE100□RA332MMH0S	220	LH0		0.14	560	EMVE630□RA221MLH0S		
	4,700	LN0	0.40	1,300	EMVE100□RA472MLN0S	330	LH0		0.14	700	EMVE630□RA331MLH0S		
	4,700	MN0	0.40	1,350	EMVE100□RA472MMN0S	330	MH0		0.14	750	EMVE630□RA331MMH0S		
	25	10	D55	0.20	17	EMVE160ARA100MD55G	470		LN0	0.14	900	EMVE630□RA471MLN0S	
22		E55	0.20	30	EMVE160ARA220ME55G	470	MH0		0.14	900	EMVE630□RA471MMH0S		
33		F55	0.20	45	EMVE160ARA330MF55G	100	22		HA0	0.12	100	EMVE101ARA220MHA0G	
47		F55	0.20	48	EMVE160ARA470MF55G		33	JA0	0.12	150	EMVE101ARA330MJA0G		
100		F55	0.26	69	EMVE160ARA101MF55G		47	KE0	0.10	250	EMVE101ARA470MKE0S		
150		F80	0.28	100	EMVE160ARA151MF80G		68	KE0	0.10	300	EMVE101ARA680MKE0S		
220		F80	0.28	120	EMVE160ARA221MF80G		100	KE0	0.10	380	EMVE101ARA101MKE0S		
330		HA0	0.28	290	EMVE160ARA331MHA0G		100	LH0	0.10	450	EMVE101□RA101MLH0S		
470		HA0	0.28	320	EMVE160ARA471MHA0G		220	LN0	0.10	750	EMVE101□RA221MLN0S		
680		JA0	0.28	470	EMVE160ARA681MJA0G		220	MH0	0.10	750	EMVE101□RA221MMH0S		
1,000		KE0	0.30	550	EMVE160ARA102MKE0S		330	MN0	0.10	980	EMVE101□RA331MMN0S		
1,000		LH0	0.30	650	EMVE160□RA102MLH0S		160	33	KE0	0.15	95	EMVE161ARA330MKE0S	
2,200		LH0	0.32	950	EMVE160□RA222MLH0S			47	LH0	0.15	260	EMVE161□RA470MLH0S	
2,200		MH0	0.32	1,000	EMVE160□RA222MMH0S			68	LN0	0.15	320	EMVE161□RA680MLN0S	
3,300		LN0	0.34	1,200	EMVE160□RA332MLN0S			68	MH0	0.15	320	EMVE161□RA680MMH0S	
3,300		MH0	0.34	1,200	EMVE160□RA332MMH0S			100	LN0	0.15	380	EMVE161□RA101MLN0S	
35	10	E55	0.16	27	EMVE250ARA100ME55G			200	10	KE0	0.15	80	EMVE201ARA100MKE0S
	22	F55	0.16	44	EMVE250ARA220MF55G		22		KG5	0.15	110	EMVE201ARA220MKG5S	
	33	F55	0.16	50	EMVE250ARA330MF55G	33	LH0		0.15	220	EMVE201□RA330MLH0S		
	47	F55	0.16	60	EMVE250ARA470MF55G	47	LN0		0.15	270	EMVE201□RA470MLN0S		
	100	F80	0.18	100	EMVE250ARA101MF80G	47	MH0		0.15	270	EMVE201□RA470MMH0S		
	150	HA0	0.18	240	EMVE250ARA151MHA0G	68	MN0		0.15	330	EMVE201□RA680MMN0S		
	220	HA0	0.18	320	EMVE250ARA221MHA0G	250	4.7	KE0	0.15	65	EMVE251ARA4R7MKE0S		
	330	JA0	0.16	450	EMVE250ARA331MJA0G		10	KG5	0.15	105	EMVE251ARA100MKG5S		
	470	JA0	0.18	490	EMVE250ARA471MJA0G		22	LH0	0.15	180	EMVE251□RA220MLH0S		
	1,000	LH0	0.26	820	EMVE250□RA102MLH0S		33	LN0	0.15	230	EMVE251□RA330MLN0S		
	1,000	MH0	0.26	880	EMVE250□RA102MMH0S		33	MH0	0.15	230	EMVE251□RA330MMH0S		
	2,200	LN0	0.28	1,250	EMVE250□RA222MLN0S		47	MN0	0.15	280	EMVE251□RA470MMN0S		
	2,200	MN0	0.28	1,300	EMVE250□RA222MMN0S	400	4.7	KG5	0.20	50	EMVE401ARA4R7MKG5S		
	35	4.7	D55	0.14	16		EMVE350ARA4R7MD55G	10	LH0	0.20	85	EMVE401□RA100MLH0S	
		10	E55	0.14	27		EMVE350ARA100ME55G	22	MN0	0.20	130	EMVE401□RA220MMN0S	
		22	F55	0.14	44		EMVE350ARA220MF55G	450	3.3	KE0	0.20	40	EMVE451ARA3R3MKE0S
47		F80	0.16	80	EMVE350ARA470MF80G		4.7		KG5	0.20	50	EMVE451ARA4R7MKG5S	
100		F80	0.16	100	EMVE350ARA101MF80G		10		LH0	0.20	85	EMVE451□RA100MLH0S	
150		HA0	0.16	260	EMVE350ARA151MHA0G	22	MN0		0.20	130	EMVE451□RA220MMN0S		
220	JA0	0.16	375	EMVE350ARA221MJA0G									

(注) □内为端子代码。