

ALCHIP™-MVE 系列

表面安装 小型化 耐清洗 RoHS指令适应品

6.3 ~ 63Vdc

- 额定电压 6.3V ~ 450V。
- 保证 105°C 1,000 ~ 2,000 小时。
- 产品尺寸: $\phi 4 \times 5.2L \sim \phi 18 \times 21.5L$ 。

MVE 长寿命化 → MVL p105 MVJ p86



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 _{dc}												
静电容量容许差	±20%(M) (20°C、120Hz)												
漏电流	额定电压 (V _{dc})	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~MNO	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)、额定电压 (V _{dc}) (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 _{dc})	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	3	3	—	—	
		Z(-40°C) / Z(+20°C)	12	8	6	4	3	3	4	—	—		
	KE0~MNO	Z(-25°C) / Z(+20°C)	5	4	3	2	2	2	2	3	6		
Z(-40°C) / Z(+20°C)		10	8	6	4	3	3	3	6	10	(120Hz)		
耐久性	在105°C环境中, 按照规定时间连续加载额定电压后, 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~MNO								
	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(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~MNO								
	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 _{dc} ~450V _{dc} 的产品不属于基板清洗类型。)												

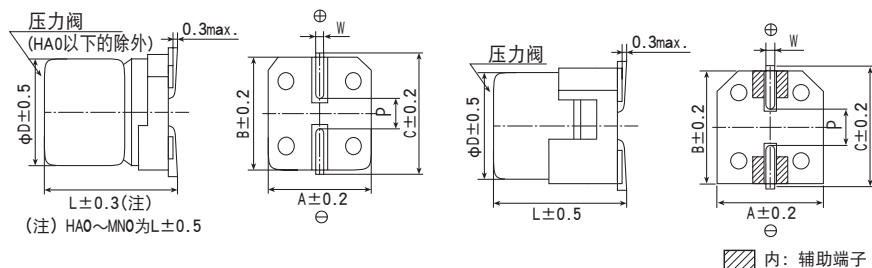
尺寸图 (CE32形) [mm]

● 端子代码: A

● 尺寸代码: D55~MNO

● 端子代码: G (耐振构造)

● 尺寸代码: LHO~MNO (带辅助端子)

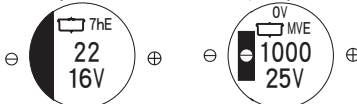


尺寸代码	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5~0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5~0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5~0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5~0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7~1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7~1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0~1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7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

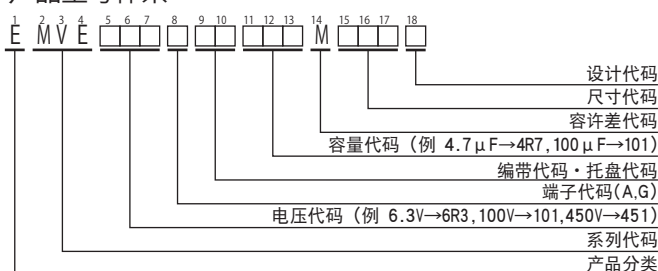
标示

标示例(D55~JA0)
16V22μF

标示例(KE0~MNO)
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~MNO	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。

WV (Vdc)	Cap (μF)	尺寸代码	tan δ	额定纹波电流 (mA _{RMS} /105℃, 120Hz)	产品型号	WV (Vdc)	Cap (μF)	尺寸代码	tan δ	额定纹波电流 (mA _{RMS} /105℃, 120Hz)	产品型号			
6.3	22	D55	0.30	22	EMVE6R3ADA220MD55G	35	330	JA0	0.16	450	EMVE350ADA331MJA0G			
	33	E55	0.30	34	EMVE6R3ADA330ME55G		470	KE0	0.22	520	EMVE350ARA471MKE0S			
	47	E55	0.30	38	EMVE6R3ADA470ME55G		470	LH0	0.22	650	EMVE350□DA471MLH0S			
	100	F55	0.30	69	EMVE6R3ADA101MF55G		1,000	LH0	0.22	750	EMVE350□DA102MLH0S			
	220	F80	0.45	120	EMVE6R3ADA221MF80G		1,000	MH0	0.22	1,000	EMVE350□DA102MMH0S			
	330	HA0	0.40	290	EMVE6R3ADA331MHA0G		2,200	MN0	0.24	1,450	EMVE350□DA222MMN0S			
	10	470	HA0	0.45	320	EMVE6R3ADA471MHA0G	50	1.0	D55	0.12	8.0	EMVE500ADA1R0MD55G		
		680	HA0	0.45	340	EMVE6R3ADA681MHA0G		2.2	D55	0.12	12	EMVE500ADA2R2MD55G		
		1,000	JA0	0.40	410	EMVE6R3ADA102MJA0G		3.3	D55	0.12	15	EMVE500ADA3R3MD55G		
		1,500	JA0	0.45	550	EMVE6R3ADA152MJA0G		4.7	E55	0.12	20	EMVE500ADA4R7ME55G		
		2,200	KE0	0.40	680	EMVE6R3ARA222MKE0S		10	F55	0.12	32	EMVE500ADA100MF55G		
		2,200	LH0	0.40	840	EMVE6R3□DA222MLH0S		33	F80	0.14	65	EMVE500ADA330MF80G		
		3,300	KG5	0.42	850	EMVE6R3ARA332MKG5S		47	F80	0.14	80	EMVE500ADA470MF80G		
		3,300	MH0	0.42	1,000	EMVE6R3□DA332MMH0S		100	HA0	0.14	230	EMVE500ADA101MHA0G		
		4,700	LN0	0.44	1,200	EMVE6R3□DA472MLN0S		220	JA0	0.14	375	EMVE500ADA221MJA0G		
		4,700	MH0	0.44	1,200	EMVE6R3□DA472MMH0S		330	KE0	0.18	500	EMVE500ARA331MKE0S		
6,800		LN0	0.48	1,200	EMVE6R3□DA682MLN0S	330		LH0	0.18	600	EMVE500□DA331MLH0S			
6,800		MN0	0.48	1,350	EMVE6R3□DA682MMN0S	470		LH0	0.18	700	EMVE500□DA471MLH0S			
16		22	E55	0.24	30	EMVE100ADA220ME55G		470	MH0	0.18	750	EMVE500□DA471MMH0S		
		33	E55	0.24	34	EMVE100ADA330ME55G		1,000	MN0	0.18	1,200	EMVE500□DA102MMN0S		
		47	F55	0.24	48	EMVE100ADA470MF55G		63	1.0	D55	0.12	8.0	EMVE630ADA1R0MD55G	
		100	F55	0.30	69	EMVE100ADA101MF55G			2.2	D55	0.12	12	EMVE630ADA2R2MD55G	
	150	F80	0.35	100	EMVE100ADA151MF80G	3.3	E55		0.12	17	EMVE630ADA3R3ME55G			
	220	F80	0.35	120	EMVE100ADA221MF80G	4.7	F55		0.12	22	EMVE630ADA4R7MF55G			
	330	HA0	0.35	290	EMVE100ADA331MHA0G	10	F55		0.12	32	EMVE630ADA100MF55G			
	470	HA0	0.35	320	EMVE100ADA471MHA0G	22	F80		0.12	58	EMVE630ADA220MF80G			
	1,000	JA0	0.35	410	EMVE100ADA102MJA0G	33	HA0		0.12	140	EMVE630ADA330MHA0G			
	2,200	KG5	0.36	750	EMVE100ARA222MKG5S	47	HA0		0.12	170	EMVE630ADA470MHA0G			
	2,200	LH0	0.36	850	EMVE100□DA222MLH0S	100	JA0		0.12	310	EMVE630ADA101MJA0G			
	3,300	LH0	0.38	1,000	EMVE100□DA332MLH0S	220	KE0		0.14	470	EMVE630ARA221MKE0S			
	3,300	MH0	0.38	1,100	EMVE100□DA332MMH0S	220	LH0		0.14	560	EMVE630□DA221MLH0S			
	4,700	LN0	0.40	1,300	EMVE100□DA472MLN0S	330	LH0		0.14	700	EMVE630□DA331MLH0S			
	4,700	MN0	0.40	1,350	EMVE100□DA472MMN0S	330	MH0		0.14	750	EMVE630□DA331MMH0S			
	25	10	D55	0.20	17	EMVE160ADA100MD55G	470		LN0	0.14	900	EMVE630□DA471MLN0S		
22		E55	0.20	30	EMVE160ADA220ME55G	470	MH0		0.14	900	EMVE630□DA471MMH0S			
33		F55	0.20	45	EMVE160ADA330MF55G	100	22		HA0	0.12	100	EMVE101ADA220MHA0G		
47		F55	0.20	48	EMVE160ADA470MF55G		33	JA0	0.12	150	EMVE101ADA330MJA0G			
100		F55	0.26	69	EMVE160ADA101MF55G		47	KE0	0.10	250	EMVE101ARA470MKE0S			
150		F80	0.28	100	EMVE160ADA151MF80G		68	KE0	0.10	300	EMVE101ARA680MKE0S			
220		F80	0.28	120	EMVE160ADA221MF80G		100	KE0	0.10	380	EMVE101ARA101MKE0S			
330		HA0	0.28	290	EMVE160ADA331MHA0G		100	LH0	0.10	450	EMVE101□DA101MLH0S			
470		HA0	0.28	320	EMVE160ADA471MHA0G		220	LN0	0.10	750	EMVE101□DA221MLN0S			
680		JA0	0.28	470	EMVE160ADA681MJA0G		220	MH0	0.10	750	EMVE101□DA221MMH0S			
1,000		KE0	0.30	550	EMVE160ARA102MKE0S		330	MN0	0.10	980	EMVE101□DA331MMN0S			
1,000		LH0	0.30	650	EMVE160□DA102MLH0S		160	33	KE0	0.15	95	EMVE161ARA330MKE0S		
2,200		LH0	0.32	950	EMVE160□DA222MLH0S			47	LH0	0.15	260	EMVE161□DA470MLH0S		
2,200		MH0	0.32	1,000	EMVE160□DA222MMH0S			68	LN0	0.15	320	EMVE161□DA680MLN0S		
3,300		LN0	0.34	1,200	EMVE160□DA332MLN0S			68	MH0	0.15	320	EMVE161□DA680MMH0S		
3,300		MH0	0.34	1,200	EMVE160□DA332MMH0S			100	LN0	0.15	380	EMVE161□DA101MLN0S		
35	10	E55	0.16	27	EMVE250ADA100ME55G			200	10	KE0	0.15	80	EMVE201ARA100MKE0S	
	22	F55	0.16	44	EMVE250ADA220MF55G		22		KG5	0.15	110	EMVE201ARA220MKG5S		
	33	F55	0.16	50	EMVE250ADA330MF55G	33	LH0		0.15	220	EMVE201□DA330MLH0S			
	47	F55	0.16	60	EMVE250ADA470MF55G	47	LN0		0.15	270	EMVE201□DA470MLN0S			
	100	F80	0.18	100	EMVE250ADA101MF80G	47	MH0		0.15	270	EMVE201□DA470MMH0S			
	150	HA0	0.18	240	EMVE250ADA151MHA0G	68	MN0		0.15	330	EMVE201□DA680MMN0S			
	400	220	HA0	0.18	320	EMVE250ADA221MHA0G	250	4.7	KE0	0.15	65	EMVE251ARA4R7MKE0S		
		330	JA0	0.16	450	EMVE250ADA331MJA0G		10	KG5	0.15	105	EMVE251ARA100MKG5S		
		470	JA0	0.18	490	EMVE250ADA471MJA0G		22	LH0	0.15	180	EMVE251□DA220MLH0S		
		1,000	LH0	0.26	820	EMVE250□DA102MLH0S		33	LN0	0.15	230	EMVE251□DA330MLN0S		
		1,000	MH0	0.26	880	EMVE250□DA102MMH0S		33	MH0	0.15	230	EMVE251□DA330MMH0S		
		2,200	LN0	0.28	1,250	EMVE250□DA222MLN0S		47	MN0	0.15	280	EMVE251□DA470MMN0S		
		450	2,200	MN0	0.28	1,300	EMVE250□DA222MMN0S	400	4.7	KG5	0.20	50	EMVE401ARA4R7MKG5S	
			35	4.7	D55	0.14	16		EMVE350ADA4R7MD55G	10	LH0	0.20	85	EMVE401□DA100MLH0S
				10	E55	0.14	27		EMVE350ADA100ME55G	22	MN0	0.20	130	EMVE401□DA220MMN0S
				22	F55	0.14	44		EMVE350ADA220MF55G	450	3.3	KE0	0.20	40
47				F80	0.16	80	EMVE350ADA470MF80G		4.7		KG5	0.20	50	EMVE451ARA4R7MKG5S
100				F80	0.16	100	EMVE350ADA101MF80G		10		LH0	0.20	85	EMVE451□DA100MLH0S
150				HA0	0.16	260	EMVE350ADA151MHA0G	22	MN0		0.20	130	EMVE451□DA220MMN0S	
220			JA0	0.16	375	EMVE350ADA221MJA0G								

(注) □内为端子代码。