

ALCHIP™-MVH系列



MVH  
↑ 125℃化  
MVE



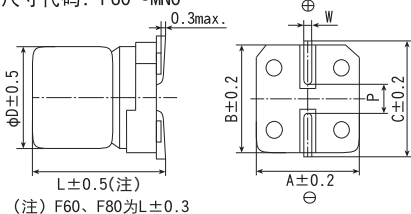
- 低 ESR 化、高纹波化。
- 保证 125℃ 1,000 ~ 5,000 小时。
- 额定电压范围 10 ~ 450V。
- 最适合用于汽车电装品的高温用途。
- EIAJ 外形尺寸注册制度注册零件 (F60、H63、HA0、JA0)。
- 产品尺寸：φ6.3×5.7L ~ φ18×21.5L。

规格表

项目	性能													
工作温度范围	-40~+125℃													
额定电压范围	10~450V <sub>dc</sub>													
静电容量容许差	±20%(M) (20℃、120Hz)													
漏电流	额定电压 (V <sub>dc</sub> )	10~100V <sub>dc</sub>						160~450V <sub>dc</sub>						
	F60~JA0	I ≤ 0.01CV 或者 3μA 中任意一个较大值						I = 0.04CV + 100						
	KE0~MNO	I ≤ 0.03CV 或者 4μA 中任意一个较大值												
I: 漏电流 (μA)、C: 静电容量 (μF)、额定电压 (V <sub>dc</sub> ) (20℃、2分值)														
损失角正切值 (tan δ)	额定电压 (V <sub>dc</sub> )	10V	16V	25V	35V	50V	63V	80V	100V	160~250V	400、450V	(20℃、120Hz)		
	tan δ (Max.)	F60~JA0	0.24	0.20	0.16	0.14	0.14	0.12	0.12	0.10	—			—
	KE0~MNO	0.22	0.18	0.16	0.14	0.12	0.14	—	0.10	0.20	0.24			
但是, 超过1,000μF 的每增加1,000μF tan δ 设定增加0.02。 (20℃、120Hz)														
温度特性 (阻抗比 Max右表值)	额定电压 (V <sub>dc</sub> )	10V	16V	25V	35V	50V	63V	80V	100V	160~250V	400、450V	(120Hz)		
	F60~JA0	Z(-25℃) / Z(+20℃)	3	2	2	2	2	2	2	2	—			—
		Z(-40℃) / Z(+20℃)	6	4	4	3	3	3	3	3	—			—
	KE0~MNO	Z(-25℃) / Z(+20℃)	4	3	2	2	2	2	—	2	3			6
Z(-40℃) / Z(+20℃)		8	6	4	3	3	3	—	3	6	10			
耐久性	在125℃环境中, 连续加载规定时间的额定电压后待温度恢复到20℃进行测量时, 应满足以下要求。													
	规定时间	F60~H63 (10~100V <sub>dc</sub> ) : 1,000小时 HA0~JA0 (10~100V <sub>dc</sub> ) : 2,000小时 KE0~MNO (10~100V <sub>dc</sub> ) : 5,000小时 KE0~MNO (160~450V <sub>dc</sub> ) : 2,000小时												
	静电容量变化率	≤ 初始值的±30%												
	损失角正切值	≤ 初始规格值的300%												
	漏电流	≤ 初始规格值												
高温无负荷特性	在125℃环境下, 无负荷放置1,000小时 (400~450V <sub>dc</sub> :500小时), 恢复到20℃进行实验前处理 (JIS C 5101-1 4.1项) 后进行测定, 应满足以下要求													
	额定电压	10~50V <sub>dc</sub>				63~450V <sub>dc</sub>								
	静电容量变化率	≤ 初始值的±30%				≤ 初始值的±30%								
	损失角正切值	≤ 初始规格值的300%				≤ 初始规格值的300%								
	漏电流	≤ 初始规格值				≤ 初始规格值的500%								

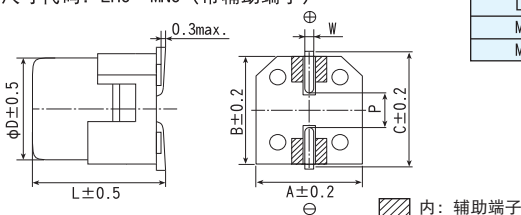
尺寸图 (CE32形) [mm]

- 端子代码: A
- 尺寸代码: F60~MNO



(注) F60、F80为L±0.3

- 端子代码: G
- 尺寸代码: LHO~MNO (带辅助端子)



内: 辅助端子

尺寸代码	D	L	A	B	C	W	P
F60	6.3	5.7	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
H63	8	6.3	8.3	8.3	9.0	0.5~0.8	2.3
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 (F60~JA0)  
35V47μF

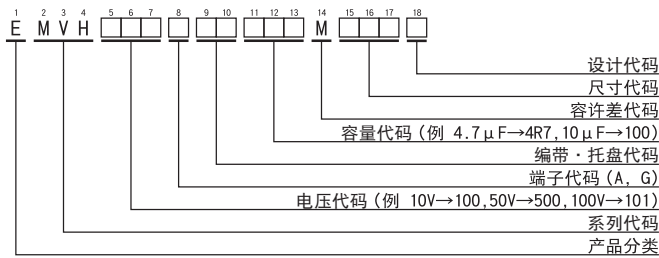


标示例 (KE0~MNO)  
16V1,000μF



ALCHIP™.MVH系列

◆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)」。

◆标准品一览表

□ 内的产品 (63~450V<sub>dc</sub>) 不能进行基板清洗。

WV (V <sub>dc</sub> )	Cap (μF)	尺寸代码	ESR (Ω <sub>max</sub> /100kHz)		额定纹波电流 (mArms/125℃)		产品型号		
			20℃	-40℃	100kHz	120Hz			
10	100	F80	0.90	14.0	110	—	EMVH100ADA101MF80G		
	100	H63	0.90	14.0	110	—	EMVH100ADA101MH63G		
	220	F80	0.90	14.0	110	—	EMVH100ADA221MF80G		
	220	H63	0.90	14.0	110	—	EMVH100ADA221MH63G		
	220	HA0	0.40	6.0	220	—	EMVH100ADA221MHA0G		
	330	HA0	0.40	6.0	220	—	EMVH100ADA331MHA0G		
	330	JA0	0.30	4.5	296	—	EMVH100ADA331MJA0G		
	470	JA0	0.30	4.5	296	—	EMVH100ADA471MJA0G		
	1,000	KE0	0.14	2.1	750	—	EMVH100ARA102MKE0S		
	2,200	LH0	0.10	1.5	1,000	—	EMVH100□DA222MLH0S		
	2,200	MH0	0.10	1.5	1,200	—	EMVH100□DA222MMH0S		
	3,300	MH0	0.10	1.5	1,200	—	EMVH100□DA332MMH0S		
4,700	MN0	0.058	0.87	1,550	—	EMVH100□DA472MMN0S			
16	47	F60	1.6	24.0	69	—	EMVH160ADA470MF60G		
	100	HA0	0.40	6.0	220	—	EMVH160ADA101MHA0G		
	220	HA0	0.40	6.0	220	—	EMVH160ADA221MHA0G		
	220	JA0	0.30	4.5	296	—	EMVH160ADA221MJA0G		
	330	JA0	0.30	4.5	296	—	EMVH160ADA331MJA0G		
	470	KE0	0.14	2.1	750	—	EMVH160ARA471MKE0S		
	680	KE0	0.14	2.1	750	—	EMVH160ARA681MKE0S		
	680	LH0	0.10	1.5	1,000	—	EMVH160□DA681MLH0S		
	1,000	MH0	0.10	1.5	1,200	—	EMVH160□DA102MMH0S		
	2,200	MH0	0.10	1.5	1,200	—	EMVH160□DA222MMH0S		
	25	33	F60	1.6	24.0	69	—	EMVH250ADA330MF60G	
		47	F80	0.90	14.0	110	—	EMVH250ADA470MF80G	
47		H63	0.90	14.0	110	—	EMVH250ADA470MH63G		
100		F80	0.90	14.0	110	—	EMVH250ADA101MF80G		
100		H63	0.90	14.0	110	—	EMVH250ADA101MH63G		
100		HA0	0.40	6.0	220	—	EMVH250ADA101MHA0G		
220		HA0	0.40	6.0	220	—	EMVH250ADA221MHA0G		
220		JA0	0.30	4.5	296	—	EMVH250ADA221MJA0G		
330		JA0	0.30	4.5	296	—	EMVH250ADA331MJA0G		
330		KE0	0.14	2.1	750	—	EMVH250ARA331MKE0S		
470		KE0	0.14	2.1	750	—	EMVH250ARA471MKE0S		
470		LH0	0.10	1.5	1,000	—	EMVH250□DA471MLH0S		
680	LH0	0.10	1.5	1,000	—	EMVH250□DA681MLH0S			
680	MH0	0.10	1.5	1,200	—	EMVH250□DA681MMH0S			
1,000	MN0	0.058	0.87	1,550	—	EMVH250□DA102MMN0S			
35	10	F60	1.6	24.0	69	—	EMVH350ADA100MF60G		
	22	F60	1.6	24.0	69	—	EMVH350ADA220MF60G		
	33	F80	0.90	14.0	110	—	EMVH350ADA330MF80G		
	33	H63	0.90	14.0	110	—	EMVH350ADA330MH63G		
	47	F80	0.90	14.0	110	—	EMVH350ADA470MF80G		
	47	H63	0.90	14.0	110	—	EMVH350ADA470MH63G		
	47	HA0	0.40	6.0	220	—	EMVH350ADA470MHA0G		
	100	HA0	0.40	6.0	220	—	EMVH350ADA101MHA0G		
	100	JA0	0.30	4.5	296	—	EMVH350ADA101MJA0G		
	220	JA0	0.30	4.5	296	—	EMVH350ADA221MJA0G		
	330	KE0	0.14	2.1	750	—	EMVH350ARA331MKE0S		
	330	LH0	0.10	1.5	1,000	—	EMVH350□DA331MLH0S		
470	KG5	0.11	1.5	900	—	EMVH350ARA471MKG5S			
470	LH0	0.10	1.5	1,000	—	EMVH350□DA471MLH0S			
680	MH0	0.10	1.5	1,200	—	EMVH350□DA681MMH0S			
50	10	F60	2.8	42.0	51	—	EMVH500ADA100MF60G		
	10	H63	1.6	30.0	83	—	EMVH500ADA100MH63G		
	22	F80	2.0	30.0	83	—	EMVH500ADA220MF80G		
	22	H63	1.6	30.0	83	—	EMVH500ADA220MH63G		
	160	10	KE0	—	—	—	100	EMVH161ARA100MKE0S	
		22	LH0	—	—	—	180	EMVH161□DA220MLH0S	
		33	MH0	—	—	—	245	EMVH161□DA330MMH0S	
		68	MN0	—	—	—	380	EMVH161□DA680MMN0S	
		200	10	KE0	—	—	—	100	EMVH201ARA100MKE0S
			22	LH0	—	—	—	180	EMVH201□DA220MLH0S
			33	LH0	—	—	—	250	EMVH201□DA330MLN0S
			33	MH0	—	—	—	245	EMVH201□DA330MMH0S
47			MN0	—	—	—	315	EMVH201□DA470MMN0S	
250			10	KG5	—	—	—	110	EMVH251ARA100MKG5S
		22	LH0	—	—	—	200	EMVH251□DA220MLN0S	
		22	MH0	—	—	—	205	EMVH251□DA220MMH0S	
	33	MN0	—	—	—	260	EMVH251□DA330MMN0S		
	400	4.7	KE0	—	—	—	70	EMVH401ARA47MKE0S	
		6.8	LH0	—	—	—	100	EMVH401□DA68MLH0S	
10		LH0	—	—	—	140	EMVH401□DA100MLN0S		
10		MH0	—	—	—	135	EMVH401□DA100MMH0S		
450	3.3	KG5	—	—	—	65	EMVH451ARA3R3MKG5S		
	4.7	LH0	—	—	—	85	EMVH451□DA47TMLH0S		
	10	MN0	—	—	—	145	EMVH451□DA100MMN0S		

□ 内为端子代码。