

ALCHIP™-MVH系列



MVH
↑ 125℃化
MVE p94



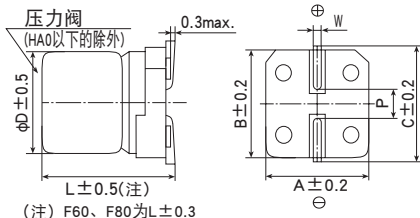
- 低 ESR 化、高纹波化。
- 保证 125℃ 1,000 ~ 5,000 小时。
- 额定电压范围 10 ~ 450V。
- 最适合用于汽车电装品的高温用途。
- 可对应耐振构造产品。
- 产品尺寸：φ6.3×5.7L ~ φ18×21.5L。
- 符合 AEC-Q200。详情请另行咨询。

规格表

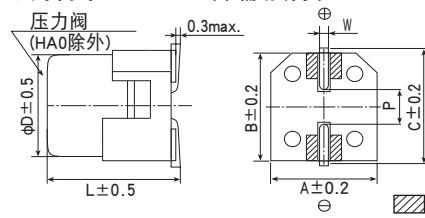
项目	性能													
工作温度范围	-40~+125℃													
额定电压范围	10~450V _{dc}													
静电容量容许差	±20%(M) (20℃、120Hz)													
漏电流	额定电压 (V _{dc})	10~100V _{dc}						160~450V _{dc}						
	F60~JA0	I ≤ 0.01CV 或者 3 μA 中任意一个较大值						I = 0.04CV + 100						
	KE0~MN0	I ≤ 0.03CV 或者 4 μA 中任意一个较大值												
I: 漏电流 (μA), C: 静电容量 (μF), 额定电压 (V _{dc}) (20℃、2分值)														
损失角正切值 (tan δ)	额定电压 (V _{dc})	10V	16V	25V	35V	50V	63V	80V	100V	160~250V	400.450V			
	tan δ (Max.)	F60~JA0	0.24	0.20	0.16	0.14	0.14	0.12	0.12	0.10	—	—		
		KE0~MN0	0.22	0.18	0.16	0.14	0.12	0.14	—	0.10	0.20	0.24		
但是, 超过1,000 μF 的每增加1,000 μF 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 _{dc})	10V	16V	25V	35V	50V	63V	80V	100V	160~250V	400.450V			
	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~MN0	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		(120Hz)	
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 _{dc}) : 1,000小时 HA0~JA0 (10~100V _{dc}) : 2,000小时 KE0~MN0 (10~100V _{dc}) : 5,000小时 KE0~MN0 (160~450V _{dc}) : 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 _{dc} :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 _{dc}				63~450V _{dc}								
	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%								
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63V _{dc} ~450V _{dc} 的产品不属于基板清洗类型。)													

尺寸图 (CE32形) [mm]

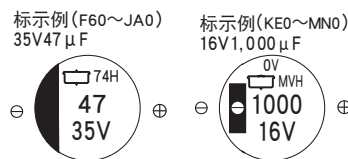
- 端子代码: A
- 尺寸代码: F60~MN0



- 端子代码: G (耐振构造)
- 尺寸代码: HA0~MN0 (带辅助端子)



标示



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
LH0	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
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

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

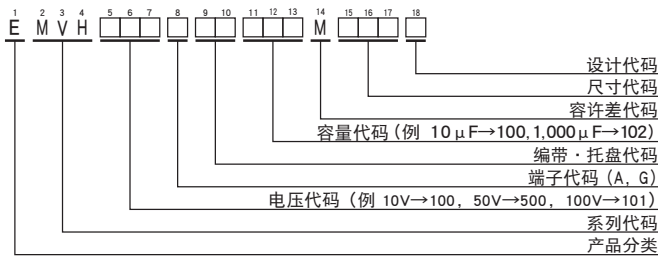
● 频率修正系数

定格电压 (V _{dc})	尺寸代码	静电容量 (μF)	频率 (Hz)			
			120	1k	10k	100k
10~100	F60~JA0	10	0.66	0.86	0.93	1.00
		22~470	0.93	0.97	1.00	1.00
		47~100	0.40	0.75	0.90	1.00
		220~470	0.50	0.85	0.94	1.00
		680~1,000	0.60	0.87	0.95	1.00
		2,200~3,300	0.75	0.90	0.95	1.00
160~450	KE0~MN0	4,700	0.85	0.95	0.98	1.00
		3.3~33	1.00	1.50	1.75	1.80
		47~68	1.00	1.30	1.40	1.50

※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℃寿命减少一半。
要想保持长寿命请在使用过程当中降低纹波电流。

ALCHIP™ MVH系列

◆产品型号体系



产品型号代码的详细介绍请参考「产品型号表示方法(贴片型)」。

◆标准品一览表

□ 内的产品(63~450V_{dc})不能进行基板清洗。

VV (V _{dc})	Cap (μF)	尺寸代码	等效串联电阻 (ESR: Ω _{max} /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	—	EMVH100□DA221MHA0G		
	330	HA0	0.40	6.0	220	—	EMVH100□DA331MHA0G		
	330	JA0	0.30	4.5	296	—	EMVH100□DA331MJA0G		
	470	JA0	0.30	4.5	296	—	EMVH100□DA471MJA0G		
	1,000	KE0	0.14	2.1	750	—	EMVH100□RA102MKE0S		
	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	—	EMVH160□DA101MHA0G		
	220	HA0	0.40	6.0	220	—	EMVH160□DA221MHA0G		
	220	JA0	0.30	4.5	296	—	EMVH160□DA221MJA0G		
	330	JA0	0.30	4.5	296	—	EMVH160□DA331MJA0G		
	470	KE0	0.14	2.1	750	—	EMVH160□RA471MKE0S		
	680	KE0	0.14	2.1	750	—	EMVH160□RA681MKE0S		
	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	—	EMVH250□DA101MHA0G		
220		HA0	0.40	6.0	220	—	EMVH250□DA221MHA0G		
220		JA0	0.30	4.5	296	—	EMVH250□DA221MJA0G		
330		JA0	0.30	4.5	296	—	EMVH250□DA331MJA0G		
330		KE0	0.14	2.1	750	—	EMVH250□RA331MKE0S		
470		KE0	0.14	2.1	750	—	EMVH250□RA471MKE0S		
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	—	EMVH350□DA470MHA0G		
	100	HA0	0.40	6.0	220	—	EMVH350□DA101MHA0G		
	100	JA0	0.30	4.5	296	—	EMVH350□DA101MJA0G		
	220	JA0	0.30	4.5	296	—	EMVH350□DA221MJA0G		
	330	KE0	0.14	2.1	750	—	EMVH350□RA331MKE0S		
	330	LH0	0.10	1.5	1,000	—	EMVH350□DA331MLH0S		
470	KG5	0.11	1.5	900	—	EMVH350□RA471MKG5S			
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	EMVH161□RA100MKE0S	
		22	LH0	—	—	—	180	EMVH161□DA220MLH0S	
		33	MH0	—	—	—	245	EMVH161□DA330MMH0S	
		68	MN0	—	—	—	380	EMVH161□DA680MMN0S	
		200	10	KE0	—	—	—	100	EMVH201□RA100MKE0S
			22	LH0	—	—	—	180	EMVH201□DA220MLH0S
			33	LN0	—	—	—	250	EMVH201□DA330MLN0S
			33	MH0	—	—	—	245	EMVH201□DA330MMH0S
47			MN0	—	—	—	315	EMVH201□DA470MMN0S	
250			10	KG5	—	—	—	110	EMVH251□RA100MKG5S
			22	LN0	—	—	—	200	EMVH251□DA220MLN0S
			22	MH0	—	—	—	205	EMVH251□DA220MMH0S
	33		MN0	—	—	—	260	EMVH251□DA330MMN0S	
	400		4.7	KE0	—	—	—	70	EMVH401□RA471MKE0S
			6.8	LH0	—	—	—	100	EMVH401□DA681MLH0S
			10	LN0	—	—	—	140	EMVH401□DA100MLN0S
		10	MH0	—	—	—	135	EMVH401□DA100MMH0S	
		450	3.3	KG5	—	—	—	65	EMVH451□RA3R3MKG5S
			4.7	LH0	—	—	—	85	EMVH451□DA4R7MLH0S
			10	MN0	—	—	—	145	EMVH451□DA100MMN0S

□ 内为端子代码。