

ALCHIP™-MVH系列

表面
安装

高温型
10~50V

耐清洗

RoHS指令
适应品

MVH
125℃化
MVE p94



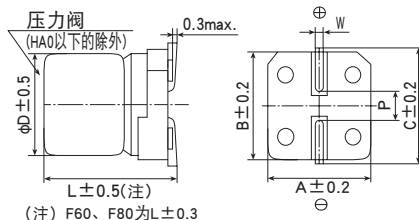
- 低 ESR 化、高纹波化。
- 保证 125℃ 1,000 ~ 5,000 小时。
- 额定电压范围 10 ~ 450V。
- 最适合用于汽车电装品的高温用途。
- 可对应耐振构造产品。
- 产品尺寸：φ6.3×5.7L ~ φ18×21.5L。
- 符合 AEC-Q200。详情请另行咨询。

规格表

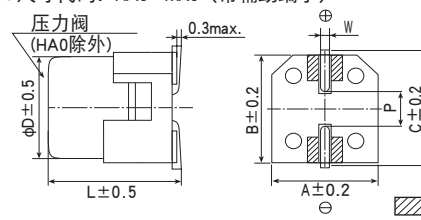
项 目	性 能											
工作温度范围	- 40~+ 125℃											
额定电压范围	10~450V _{dc}											
静电容量容许差	± 20%(M) (20℃、120Hz)											
漏电流	额定电压 (V _{dc})	10~100V _{dc}					160~450V _{dc}					
	F60~JA0	I ≤ 0.01CV或者3 μ A 中任意一个较大值					I = 0.04CV + 100					
	KE0~MN0	I ≤ 0.03CV或者4 μ A 中任意一个较大值										
	I: 漏电流 (μ A)、C: 静电容量 (μ F)、额定电压 (V _{dc}) (20℃、2分値)											
损失角正切値 (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 μ F 的每增加1,000 μ F tan δ 设定增加0.02。(20℃、120Hz)											
温度特性 (阻抗比 Max右表値)	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%										
	损失角正切値	≤ 初始规格値的300%										
	漏电流	≤ 初始规格値										
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%							
	损失角正切値	≤ 初始规格値的300%			≤ 初始规格値的300%							
	漏电流	≤ 初始规格値			≤ 初始规格値的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]

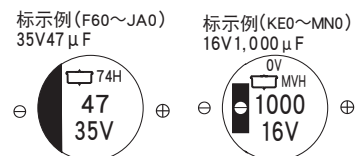
- 端子代码: A
- 尺寸代码: F60~MN0



- 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
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

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

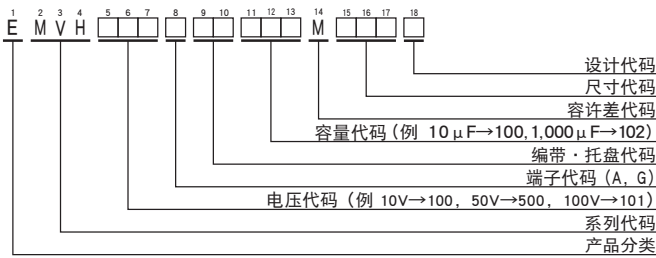
频率修正系数

定格电压 (Vdc)	尺寸代码	频率 (Hz)		120	1k	10 k	100 k
		静电容量 (μF)					
10~100	F60~JA0	10	0.66	0.86	0.93	1.00	
		22~470	0.93	0.97	1.00	1.00	
	KE0~MN0	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	
		4,700	0.85	0.95	0.98	1.00	
		160~450	KE0~MN0	3.3~33	1.00	1.50	1.75
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「产品型号的表示方法 (贴片型)」。

◆标准品一览表

□ 内的产品 (63~450V_{dc}) 不能进行基板清洗。

WV (V _{dc})	Cap (μ F)	尺寸 代码	等效串联电阻 (ESR: $\Omega_{\max}/$ 100kHz)*		额定纹波电流 (mA _{RMS} /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
16	470	MN0	0.058	0.87	1,550	—	EMVH100□DA472MMN0S
	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
	33	F60	1.6	24.0	69	—	EMVH250ADA330MF60G
25	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
35	680	MH0	0.10	1.5	1,200	—	EMVH250□DA681MMH0S
	1,000	MN0	0.058	0.87	1,550	—	EMVH250□DA102MMN0S
	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
50	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
	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
	33	HA0	0.70	11.0	160	—	EMVH500□DA330MHA0G
	47	HA0	0.70	11.0	160	—	EMVH500□DA470MHA0G
	47	JA0	0.50	7.5	247	—	EMVH500□DA470MJA0G
63	100	JA0	0.50	7.5	247	—	EMVH500□DA101MJA0G
	100	KE0	0.23	3.5	550	—	EMVH500□RA101MKE0S
	220	KE0	0.23	3.5	550	—	EMVH500□DA221MKE0S
	220	LH0	0.15	2.3	850	—	EMVH500□DA221MLH0S
	330	KG5	0.18	2.7	700	—	EMVH500□RA331MKG5S
	330	LH0	0.15	2.3	850	—	EMVH500□DA331MLH0S
	470	MH0	0.15	2.3	920	—	EMVH500□DA471MMH0S
	10	F80	2.0	100	60	—	EMVH630ADA100MF80G
	10	H63	2.0	110	60	—	EMVH630ADA100MH63G
	22	HA0	0.70	35.0	100	—	EMVH630□DA220MHA0G
	33	HA0	0.70	35.0	100	—	EMVH630□DA330MHA0G
	33	JA0	0.50	25.0	170	—	EMVH630□DA330MJA0G
80	47	HA0	0.70	35.0	100	—	EMVH630□DA470MHA0G
	47	JA0	0.50	25.0	170	—	EMVH630□DA470MJA0G
	100	KE0	0.25	12.5	500	—	EMVH630□RA101MKE0S
	220	KG5	0.20	10.0	600	—	EMVH630□RA221MKG5S
	330	LH0	0.18	9.0	820	—	EMVH630□DA331MLH0S
	470	LN0	0.11	5.5	1,100	—	EMVH630□DA471MLN0S
	10	HA0	0.75	50.0	70	—	EMVH800□DA100MHA0G
	22	HA0	0.75	50.0	70	—	EMVH800□DA220MHA0G
	22	JA0	0.55	35.0	115	—	EMVH800□DA220MJA0G
	33	HA0	0.75	50.0	70	—	EMVH800□DA330MHA0G
	33	JA0	0.55	35.0	115	—	EMVH800□DA330MJA0G
	47	JA0	0.55	35.0	115	—	EMVH800□DA470MJA0G
100	10	HA0	0.75	50.0	70	—	EMVH101□DA100MHA0G
	22	HA0	0.75	50.0	70	—	EMVH101□DA220MHA0G
	22	JA0	0.55	35.0	115	—	EMVH101□DA220MJA0G
	33	JA0	0.55	35.0	115	—	EMVH101□DA330MJA0G
	47	KE0	0.33	16.5	450	—	EMVH101□RA470MKE0S
	68	KG5	0.26	13.0	550	—	EMVH101□RA680MKG5S
	100	LH0	0.24	12.0	650	—	EMVH101□DA101MLH0S
	220	MN0	0.16	8.0	950	—	EMVH101□DA221MMN0S
	10	KE0	—	—	100	—	EMVH161□RA100MKE0S
	22	LH0	—	—	180	—	EMVH161□DA220MLH0S
	33	MH0	—	—	245	—	EMVH161□DA330MMH0S
	68	MN0	—	—	380	—	EMVH161□DA680MMN0S
160	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
	10	KG5	—	—	110	—	EMVH251□RA100MKG5S
	22	LN0	—	—	200	—	EMVH251□DA220MLN0S
	22	MH0	—	—	205	—	EMVH251□DA220MMH0S
	33	MN0	—	—	260	—	EMVH251□DA330MMN0S
	4.7	KE0	—	—	70	—	EMVH401□RA470MKE0S
	6.8	LH0	—	—	100	—	EMVH401□DA680MLH0S
	10	LN0	—	—	140	—	EMVH401□DA100MLN0S
200	10	MH0	—	—	135	—	EMVH401□DA100MMH0S
	3.3	KG5	—	—	65	—	EMVH451□RA330MKG5S
	4.7	LH0	—	—	85	—	EMVH451□DA470TMLH0S
	10	MN0	—	—	145	—	EMVH451□DA100MMN0S

□ 内为端子代码。

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