

KMH 系列

标准品

RoHS2
适应品

- 保证 105°C 2,000 小时 (叠加纹波电流)。
- 请注意不属于基板清洗类型。

KMM
↑
小型化
长寿命化
KMH

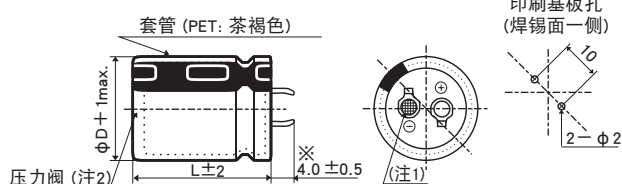


◆ 规格表

项 目	性 能										
工作温度范围	-40~+105°C										
额定电压范围	6.3~100V _{dc}										
静电容量容许差	±20% (M) (20°C、120Hz)										
漏电流	I ≤ 0.02CV 或者 3mA 中任意一个较小值 I: 漏电流 (µA)、C: 静电容量 (µF)、V: 额定电压 (V _{dc}) (20°C、5分値)										
损失角正切值 (tan δ)	额定电压 (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	
	tan δ (Max.)	0.60	0.50	0.40	0.30	0.25	0.20	0.15	0.15	0.15	(20°C、120Hz)
温度特性 (阻抗比 Max右表值)	额定电压 (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	
	Z (-25°C) / Z (+20°C)	4	4	4	3	3	2	2	2	2	
	Z (-40°C) / Z (+20°C)	15	15	15	10	8	6	6	5	5	(120Hz)
耐久性	在 105°C 环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载额定电压 2,000 小时后, 待温度恢复到 20°C 进行测量时, 应满足以下要求。										
	静电容量变化率	≤ 初始值的 ±20%									
	损失角正切值	≤ 初始规格值的 200%									
	漏电流	≤ 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。										
	静电容量变化率	≤ 初始值的 ±20%									
	损失角正切值	≤ 初始规格值的 150%									
	漏电流	≤ 初始规格值									

◆ 尺寸图 (CE692形) [mm]

● 端子代码: VS (φ 22~φ 35): 标准品

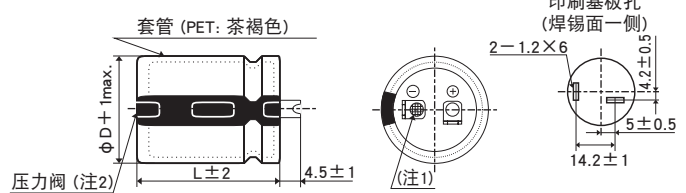


※ φ 35 品为 3.5 ± 0.5。

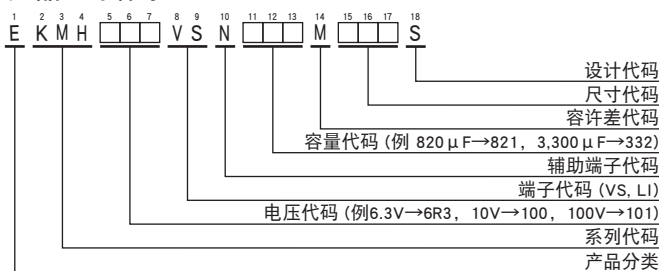
(注1) 阴极端子的铆钉部网眼刻印。

(注2) 标准规格为「无树脂板」。

● 端子代码: LI (φ 35)



◆ 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 (基板自立型)」。

◆标准品一览表

WV (Vdc)	Cap (μF)	尺寸 φD×L(mm)	tanδ	额定纹波 电流 (Arms/ 105°C, 120Hz)		产品型号	WV (Vdc)	Cap (μF)	尺寸 φD×L(mm)	tanδ	额定纹波 电流 (Arms/ 105°C, 120Hz)		产品型号
6.3	12,000	22×25	0.60	1.54		EKMH6R3VSN123MP25S	16	27,000	35×30	0.40	3.45		EKMH160VSN273MA30S
	15,000	22×25	0.60	1.72		EKMH6R3VSN153MP25S		33,000	30×45	0.40	4.30		EKMH160VSN333MR45S
	18,000	22×30	0.60	1.95		EKMH6R3VSN183MP30S		33,000	35×35	0.40	4.26		EKMH160VSN333MA35S
	18,000	25.4×25	0.60	1.96		EKMH6R3VSN183MQ25S		39,000	30×50	0.40	4.81		EKMH160VSN393MR50S
	22,000	22×35	0.60	2.23		EKMH6R3VSN223MP35S		39,000	35×40	0.40	4.79		EKMH160VSN393MA40S
	22,000	25.4×30	0.60	2.25		EKMH6R3VSN223MQ30S		47,000	35×45	0.40	5.43		EKMH160VSN473MA45S
	22,000	30×25	0.60	2.28		EKMH6R3VSN223MR25S		25	4,700	22×25	0.30	1.50	
	27,000	22×40	0.60	2.54		EKMH6R3VSN273MP40S	5,600		22×25	0.30	1.63		EKMH250VSN562MP25S
	27,000	25.4×35	0.60	2.57		EKMH6R3VSN273MQ35S	6,800		22×30	0.30	1.86		EKMH250VSN682MP30S
	27,000	30×25	0.60	2.52		EKMH6R3VSN273MR25S	6,800		25.4×25	0.30	1.87		EKMH250VSN682MQ25S
	33,000	22×45	0.60	2.88		EKMH6R3VSN333MP45S	8,200		22×35	0.30	2.11		EKMH250VSN822MP35S
	33,000	25.4×40	0.60	2.93		EKMH6R3VSN333MQ40S	8,200		25.4×30	0.30	2.12		EKMH250VSN822MQ30S
	33,000	30×30	0.60	2.89		EKMH6R3VSN333MP30S	8,200		30×25	0.30	2.15		EKMH250VSN822MR25S
	33,000	35×25	0.60	2.93		EKMH6R3VSN333MA25S	10,000		22×40	0.30	2.39		EKMH250VSN103MP40S
	39,000	25.4×40	0.60	3.18		EKMH6R3VSN393MQ40S	10,000		25.4×35	0.30	2.42		EKMH250VSN103MQ35S
	39,000	30×35	0.60	3.26		EKMH6R3VSN393MR35S	10,000		30×25	0.30	2.37		EKMH250VSN103MR25S
	39,000	35×30	0.60	3.40		EKMH6R3VSN393MA30S	12,000		22×45	0.30	2.69		EKMH250VSN123MP45S
	47,000	25.4×50	0.60	3.69		EKMH6R3VSN473MQ50S	12,000		25.4×40	0.30	2.74		EKMH250VSN123MQ40S
	47,000	30×40	0.60	3.69		EKMH6R3VSN473MR40S	12,000		30×30	0.30	2.70		EKMH250VSN123MR30S
	47,000	35×30	0.60	3.73		EKMH6R3VSN473MA30S	12,000		35×25	0.30	2.74		EKMH250VSN123MA25S
	56,000	30×45	0.60	4.16		EKMH6R3VSN563MR45S	15,000		25.4×45	0.30	3.15		EKMH250VSN153MQ45S
	56,000	35×35	0.60	4.12		EKMH6R3VSN563MA35S	15,000		30×35	0.30	3.13		EKMH250VSN153MR35S
	68,000	30×50	0.60	4.71		EKMH6R3VSN683MR50S	15,000		35×30	0.30	3.27		EKMH250VSN153MA30S
	68,000	35×40	0.60	4.69		EKMH6R3VSN683MA40S	18,000		25.4×50	0.30	3.54		EKMH250VSN183MQ50S
82,000	35×45	0.60	5.32		EKMH6R3VSN823MA45S	18,000	30×40		0.30	3.54		EKMH250VSN183MR40S	
10	10,000	22×25	0.50	1.55		EKMH100VSN103MP25S	18,000		35×30	0.30	3.58		EKMH250VSN183MA30S
	12,000	22×30	0.50	1.77		EKMH100VSN123MP30S	22,000		30×45	0.30	4.04		EKMH250VSN223MR45S
	15,000	22×30	0.50	1.97		EKMH100VSN153MP30S	22,000		35×35	0.30	3.64		EKMH250VSN223MA35S
	15,000	25.4×25	0.50	1.96		EKMH100VSN153MQ25S	27,000		35×45	0.30	4.73		EKMH250VSN273MA45S
	18,000	22×35	0.50	2.21		EKMH100VSN183MP35S	33,000		35×50	0.30	5.39		EKMH250VSN333MA50S
	18,000	25.4×30	0.50	2.23		EKMH100VSN183MQ30S	35	3,300	22×25	0.25	1.40		EKMH350VSN332MP25S
	22,000	22×40	0.50	2.51		EKMH100VSN223MP40S		3,900	22×30	0.25	1.57		EKMH350VSN392MP30S
	22,000	25.4×35	0.50	2.54		EKMH100VSN223MQ35S		4,700	22×30	0.25	1.72		EKMH350VSN472MP30S
	22,000	30×25	0.50	2.40		EKMH100VSN223MR25S		4,700	25.4×25	0.25	1.80		EKMH350VSN472MQ25S
	27,000	22×50	0.50	2.93		EKMH100VSN273MP50S		5,600	22×35	0.25	1.95		EKMH350VSN562MP35S
	27,000	25.4×40	0.50	2.90		EKMH100VSN273MQ40S		5,600	25.4×30	0.25	1.96		EKMH350VSN562MQ30S
	27,000	30×30	0.50	2.87		EKMH100VSN273MR30S		5,600	30×25	0.25	1.99		EKMH350VSN562MR25S
	27,000	35×25	0.50	2.73		EKMH100VSN273MA25S		6,800	22×40	0.25	2.20		EKMH350VSN682MP40S
	33,000	25.4×45	0.50	3.30		EKMH100VSN333MQ45S		6,800	25.4×35	0.25	2.23		EKMH350VSN682MQ35S
	33,000	30×35	0.50	3.28		EKMH100VSN333MR35S		6,800	30×25	0.25	2.19		EKMH350VSN682MR25S
	33,000	35×30	0.50	3.16		EKMH100VSN333MA30S		8,200	22×50	0.25	2.55		EKMH350VSN822MP50S
	39,000	25.4×50	0.50	3.68		EKMH100VSN393MQ50S		8,200	25.4×40	0.25	2.53		EKMH350VSN822MQ40S
	39,000	30×40	0.50	3.69		EKMH100VSN393MR40S		8,200	30×30	0.25	2.75		EKMH350VSN822MR30S
	39,000	35×30	0.50	3.43		EKMH100VSN393MA30S		8,200	35×25	0.25	2.75		EKMH350VSN822MA25S
	47,000	30×45	0.50	4.17		EKMH100VSN473MR45S		10,000	25.4×45	0.25	2.87		EKMH350VSN103MQ45S
	47,000	35×35	0.50	3.76		EKMH100VSN473MA35S		10,000	30×35	0.25	2.90		EKMH350VSN103MR35S
	56,000	30×50	0.50	4.68		EKMH100VSN563MR50S		10,000	35×30	0.25	2.91		EKMH350VSN103MA30S
	56,000	35×40	0.50	4.67		EKMH100VSN563MA40S		12,000	25.4×50	0.25	3.24		EKMH350VSN123MQ50S
	68,000	35×50	0.50	5.46		EKMH100VSN683MA50S		12,000	30×40	0.25	3.23		EKMH350VSN123MR40S
16	6,800	22×25	0.40	1.57		EKMH160VSN682MP25S		12,000	35×30	0.25	2.99		EKMH350VSN123MA30S
	10,000	22×30	0.40	1.97		EKMH160VSN103MP30S		15,000	30×45	0.25	3.72		EKMH350VSN153MR45S
	10,000	25.4×25	0.40	1.97		EKMH160VSN103MQ25S		15,000	35×35	0.25	3.67		EKMH350VSN153MA35S
	12,000	22×35	0.40	2.22		EKMH160VSN123MP35S		18,000	35×40	0.25	4.37		EKMH350VSN183MA40S
	12,000	25.4×30	0.40	2.24		EKMH160VSN123MQ30S		22,000	35×50	0.25	4.92		EKMH350VSN223MA50S
	12,000	30×25	0.40	2.45		EKMH160VSN123MR25S	50	1,800	22×25	0.20	1.33		EKMH500VSN182MP25S
	15,000	22×40	0.40	2.55		EKMH160VSN153MP40S		2,700	22×30	0.20	1.69		EKMH500VSN272MP30S
	15,000	25.4×35	0.40	2.58		EKMH160VSN153MQ35S		2,700	25.4×25	0.20	1.70		EKMH500VSN272MQ25S
	15,000	30×25	0.40	2.52		EKMH160VSN153MR25S		3,300	22×35	0.20	1.93		EKMH500VSN332MP35S
	18,000	22×45	0.40	2.87		EKMH160VSN183MP45S		3,300	25.4×30	0.20	1.85		EKMH500VSN332MQ30S
	18,000	25.4×40	0.40	2.92		EKMH160VSN183MQ40S		3,900	22×40	0.20	2.16		EKMH500VSN392MP40S
	18,000	30×30	0.40	2.88		EKMH160VSN183MR30S		3,900	25.4×35	0.20	2.18		EKMH500VSN392MQ35S
	18,000	35×25	0.40	2.92		EKMH160VSN183MA25S		3,900	30×25	0.20	1.95		EKMH500VSN392MR25S
	22,000	25.4×45	0.40	3.32		EKMH160VSN223MQ45S		4,700	22×45	0.20	2.43		EKMH500VSN472MP45S
	22,000	30×35	0.40	3.29		EKMH160VSN223MR35S		4,700	25.4×35	0.20	2.39		EKMH500VSN472MQ35S
	22,000	35×25	0.40	3.23		EKMH160VSN223MA25S		4,700	30×30	0.20	2.25		EKMH500VSN472MR30S
	27,000	25.4×50	0.40	3.78		EKMH160VSN273MQ50S		4,700	35×25	0.20	2.48		EKMH500VSN472MA25S
	27,000	30×40	0.40	3.77		EKMH160VSN273MR40S		5,600	22×50	0.20	2.75		EKMH500VSN562MP50S

◆标准品一览表

WV (V _{dc})	Cap (μF)	尺寸 φD×L(mm)	tan δ	额定纹波电流 (Arms/105°C, 120Hz)	产品型号	WV (V _{dc})	Cap (μF)	尺寸 φD×L(mm)	tan δ	额定纹波电流 (Arms/105°C, 120Hz)	产品型号
50	5,600	25.4×40	0.20	2.70	EKMH500VSN562MQ40S	80	1,800	25.4×30	0.15	1.76	EKMH800VSN182MQ30S
	5,600	30×35	0.20	2.76	EKMH500VSN562MR35S		1,800	30×25	0.15	1.65	EKMH800VSN182MR25S
	5,600	35×25	0.20	2.70	EKMH500VSN562MA25S		2,200	22×45	0.15	2.04	EKMH800VSN222MP45S
	6,800	25.4×50	0.20	3.30	EKMH500VSN682MQ50S		2,200	25.4×35	0.15	2.01	EKMH800VSN222MQ35S
	6,800	30×40	0.20	3.30	EKMH500VSN682MR40S		2,200	30×30	0.15	2.05	EKMH800VSN222MR30S
	6,800	35×30	0.20	3.25	EKMH500VSN682MA30S		2,200	35×25	0.15	2.07	EKMH800VSN222MA25S
	8,200	30×45	0.20	3.60	EKMH500VSN822MR45S		2,700	25.4×45	0.15	2.36	EKMH800VSN272MQ45S
	8,200	35×35	0.20	3.55	EKMH500VSN822MA35S		2,700	30×35	0.15	2.35	EKMH800VSN272MR35S
	10,000	30×50	0.20	4.04	EKMH500VSN103MR50S		2,700	35×25	0.15	2.29	EKMH800VSN272MA25S
	10,000	35×40	0.20	4.03	EKMH500VSN103MA40S		3,300	25.4×50	0.15	2.68	EKMH800VSN332MQ50S
	12,000	35×45	0.20	4.55	EKMH500VSN123MA45S		3,300	30×40	0.15	2.68	EKMH800VSN332MR40S
	63	1,200	22×25	0.15	1.19		EKMH630VSN122MP25S	3,300	35×30	0.15	2.45
1,500		22×25	0.15	1.33	EKMH630VSN152MP25S	3,900	30×45	0.15	3.00	EKMH800VSN392MR45S	
1,800		22×30	0.15	1.51	EKMH630VSN182MP30S	3,900	35×35	0.15	2.98	EKMH800VSN392MA35S	
1,800		25.4×25	0.15	1.52	EKMH630VSN182MQ25S	4,700	30×50	0.15	3.39	EKMH800VSN472MR50S	
2,200		22×35	0.15	1.73	EKMH630VSN222MP35S	4,700	35×40	0.15	3.38	EKMH800VSN472MA40S	
2,200		25.4×30	0.15	1.74	EKMH630VSN222MQ30S	5,600	35×45	0.15	3.80	EKMH800VSN562MA45S	
2,700		22×40	0.15	1.97	EKMH630VSN272MP40S	6,800	35×50	0.15	3.90	EKMH800VSN682MA50S	
2,700		25.4×35	0.15	1.99	EKMH630VSN272MQ35S	100	560	22×25	0.15	1.05	EKMH101VSN561MP25S
2,700		30×25	0.15	1.76	EKMH630VSN272MR25S		820	22×30	0.15	1.32	EKMH101VSN821MP30S
3,300		22×50	0.15	2.29	EKMH630VSN332MP50S		820	25.4×25	0.15	1.33	EKMH101VSN821MQ25S
3,300		25.4×40	0.15	2.27	EKMH630VSN332MQ40S		1,000	22×35	0.15	1.50	EKMH101VSN102MP35S
3,300		30×30	0.15	2.24	EKMH630VSN332MR30S		1,000	25.4×30	0.15	1.51	EKMH101VSN102MQ30S
3,300		35×25	0.15	2.06	EKMH630VSN332MA25S		1,200	22×40	0.15	1.69	EKMH101VSN122MP40S
3,900		25.4×45	0.15	2.54	EKMH630VSN392MQ45S		1,200	25.4×35	0.15	1.71	EKMH101VSN122MQ35S
3,900		30×35	0.15	2.55	EKMH630VSN392MR35S		1,200	30×25	0.15	1.68	EKMH101VSN122MR25S
3,900		35×25	0.15	2.24	EKMH630VSN392MA25S		1,500	22×45	0.15	1.94	EKMH101VSN152MP45S
4,700		25.4×50	0.15	2.86	EKMH630VSN472MQ50S		1,500	25.4×40	0.15	1.98	EKMH101VSN152MQ40S
4,700		30×40	0.15	2.86	EKMH630VSN472MR40S		1,500	30×30	0.15	1.95	EKMH101VSN152MR30S
4,700		35×30	0.15	2.79	EKMH630VSN472MA30S		1,500	35×25	0.15	1.98	EKMH101VSN152MA25S
5,600		30×45	0.15	3.22	EKMH630VSN562MR45S		1,800	25.4×45	0.15	2.23	EKMH101VSN182MQ45S
5,600	35×35	0.15	3.19	EKMH630VSN562MA35S	1,800		30×35	0.15	2.50	EKMH101VSN182MR35S	
6,800	30×50	0.15	3.65	EKMH630VSN682MR50S	1,800		35×25	0.15	2.17	EKMH101VSN182MA25S	
6,800	35×40	0.15	3.64	EKMH630VSN682MA40S	2,200		25.4×50	0.15	2.53	EKMH101VSN222MQ50S	
8,200	35×45	0.15	3.90	EKMH630VSN822MA45S	2,200		30×40	0.15	2.70	EKMH101VSN222MR40S	
10,000	35×50	0.15	4.40	EKMH630VSN103MA50S	2,200		35×30	0.15	2.50	EKMH101VSN222MA30S	
80	820	22×25	0.15	1.11	EKMH800VSN821MP25S		2,700	30×45	0.15	2.88	EKMH101VSN272MR45S
	1,000	22×25	0.15	1.22	EKMH800VSN102MP25S		2,700	35×35	0.15	2.86	EKMH101VSN272MA35S
	1,200	22×30	0.15	1.38	EKMH800VSN122MP30S	3,300	30×50	0.15	3.28	EKMH101VSN332MR50S	
	1,200	25.4×25	0.15	1.39	EKMH800VSN122MQ25S	3,300	35×40	0.15	3.27	EKMH101VSN332MA40S	
	1,500	22×35	0.15	1.59	EKMH800VSN152MP35S	3,900	35×45	0.15	3.67	EKMH101VSN392MA45S	
	1,500	25.4×30	0.15	1.61	EKMH800VSN152MQ30S	4,700	35×50	0.15	3.80	EKMH101VSN472MA50S	
	1,800	22×40	0.15	1.80	EKMH800VSN182MP40S						

※160V_{dc} 以上的使用 KMR、KMQ 系列。

◆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

频率 (Hz)	50	120	300	1k	10k	50k
6.3~50V _{dc}	0.95	1.00	1.03	1.05	1.08	1.08
63~100V _{dc}	0.92	1.00	1.07	1.13	1.19	1.20

※铝电解电容器的老化是由于叠加纹波电流导致自发热温度上升，从而缩短了使用寿命。

详细介绍请参考目录 TECHNICAL NOTE 中记载的“5-3 纹波电流与寿命”。