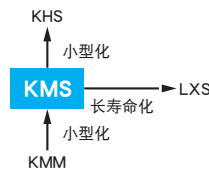


KMS Upgrade! 系列

- 小型化
- 长寿命
- RoHS2 适应品

- 扩大工作温度范围的下限温度范围。
- 太阳能发电用，高耐压品阵容。
- 保证105°C 3,000小时（叠加纹波电流）。
- 额定电压范围：160~600V，静电容量范围：47~3,300 μF。
- 请注意不属于基板清洗类型。



600V Lineup!



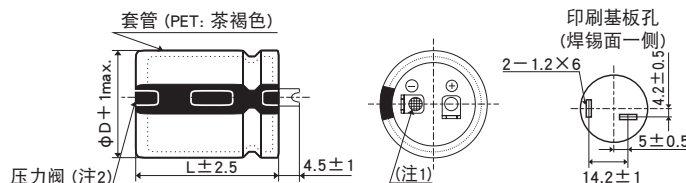
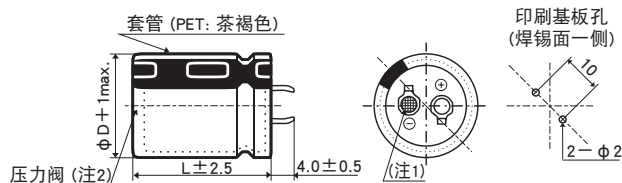
◆规格表

项 目	性 能	
工作温度范围	-40~+105°C (160~500V _{dc})、-25~+105°C (550~600V _{dc})	
额定电压范围	160~600V _{dc}	
静电容量容许差	±20% (M) (20°C、120Hz)	
漏电流	I ≤ 3√CV 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})	160~400V 420~600V
	tan δ (Max.)	0.15 0.20 (20°C、120Hz)
温度特性 (阻抗比 Max右表值)	额定电压 (V _{dc})	160~400V 420~600V
	Z (-25°C) / Z (+20°C)	4 8 (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3,000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% (600V _{dc} : ≤300%)
	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±15%
	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 (φ22~φ35): 标准品

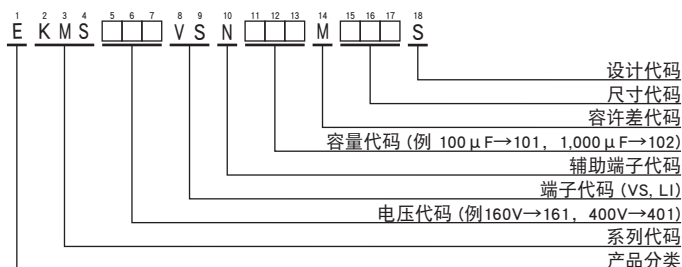
●端子代码: LI (φ35)



(注1) 阴极端子的铆钉部网眼刻印。

(注2) 标准规格为「无树脂版」。

◆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)」。

KMS 系列

◆标准品一览表

WV (Vdc)	Cap (μF)	尺寸 φD×L(mm)	tan δ	额定纹波电流 (Arms/105°C, 120Hz)	产品型号	WV (Vdc)	Cap (μF)	尺寸 φD×L(mm)	tan δ	额定纹波电流 (Arms/105°C, 120Hz)	产品型号	
160	470	22 × 25	0.15	1.47	EKMS161VSN471MP25S	200	1,800	30 × 45	0.15	3.66	EKMS201VSN182MR45S	
	680	22 × 30	0.15	1.86	EKMS161VSN681MP30S		1,800	30 × 50	0.15	3.72	EKMS201VSN182MR50S	
	680	25.4 × 25	0.15	1.84	EKMS161VSN681MQ25S		1,800	35 × 40	0.15	3.81	EKMS201VSN182MA40S	
	820	22 × 35	0.15	2.09	EKMS161VSN821MP35S		2,200	35 × 45	0.15	4.32	EKMS201VSN222MA45S	
	820	25.4 × 30	0.15	2.08	EKMS161VSN821MQ30S		2,700	35 × 50	0.15	4.88	EKMS201VSN272MA50S	
	1,000	22 × 40	0.15	2.35	EKMS161VSN102MP40S		250	270	22 × 25	0.15	1.11	EKMS251VSN271MP25S
	1,000	22 × 45	0.15	2.40	EKMS161VSN102MP45S			330	22 × 30	0.15	1.29	EKMS251VSN331MP30S
	1,000	25.4 × 35	0.15	2.40	EKMS161VSN102MQ35S			390	22 × 35	0.15	1.44	EKMS251VSN391MP35S
	1,000	30 × 25	0.15	2.50	EKMS161VSN102MR25S			390	25.4 × 25	0.15	1.40	EKMS251VSN391MQ25S
	1,200	22 × 50	0.15	2.69	EKMS161VSN122MP50S			470	22 × 40	0.15	1.61	EKMS251VSN471MP40S
	1,200	25.4 × 40	0.15	2.68	EKMS161VSN122MQ40S			470	25.4 × 30	0.15	1.57	EKMS251VSN471MQ30S
	1,200	30 × 30	0.15	2.77	EKMS161VSN122MR30S			560	22 × 45	0.15	1.79	EKMS251VSN561MP45S
	1,200	35 × 25	0.15	2.91	EKMS161VSN122MA25S			560	25.4 × 35	0.15	1.79	EKMS251VSN561MQ35S
	1,500	25.4 × 45	0.15	3.05	EKMS161VSN152MA45S			560	30 × 25	0.15	1.87	EKMS251VSN561MR25S
	1,500	30 × 35	0.15	3.17	EKMS161VSN152MR35S			680	22 × 50	0.15	2.02	EKMS251VSN681MP50S
	1,800	25.4 × 50	0.15	3.40	EKMS161VSN182MQ50S			680	25.4 × 40	0.15	2.02	EKMS251VSN681MQ40S
	1,800	30 × 40	0.15	3.57	EKMS161VSN182MR40S			680	30 × 30	0.15	2.08	EKMS251VSN681MR30S
	1,800	35 × 30	0.15	3.62	EKMS161VSN182MA30S			680	35 × 25	0.15	2.19	EKMS251VSN681MA25S
	2,200	30 × 45	0.15	4.05	EKMS161VSN222MR45S			820	25.4 × 45	0.15	2.26	EKMS251VSN821MQ45S
	2,200	35 × 35	0.15	4.07	EKMS161VSN222MA35S			820	30 × 35	0.15	2.34	EKMS251VSN821MR35S
2,700	30 × 50	0.15	4.56	EKMS161VSN272MR50S	1,000	25.4 × 50		0.15	2.53	EKMS251VSN102MQ50S		
2,700	35 × 40	0.15	4.67	EKMS161VSN272MA40S	1,000	30 × 40		0.15	2.66	EKMS251VSN102MR40S		
2,700	35 × 45	0.15	4.78	EKMS161VSN272MA45S	1,000	35 × 30		0.15	2.70	EKMS251VSN102MA30S		
3,300	35 × 50	0.15	5.40	EKMS161VSN332MA50S	1,200	30 × 45		0.15	2.99	EKMS251VSN122MR45S		
180	390	22 × 25	0.15	1.34	EKMS181VSN391MP25S	1,200		30 × 50	0.15	3.04	EKMS251VSN122MR50S	
	560	22 × 30	0.15	1.68	EKMS181VSN561MP30S	1,200	35 × 35	0.15	3.00	EKMS251VSN122MA35S		
	560	25.4 × 25	0.15	1.67	EKMS181VSN561MQ25S	1,500	35 × 40	0.15	3.48	EKMS251VSN152MA40S		
	680	22 × 35	0.15	1.90	EKMS181VSN681MP35S	1,500	35 × 45	0.15	3.56	EKMS251VSN152MA45S		
	820	22 × 40	0.15	2.13	EKMS181VSN821MP40S	1,800	35 × 50	0.15	3.98	EKMS251VSN182MA50S		
	820	25.4 × 30	0.15	2.08	EKMS181VSN821MQ30S	315	180	22 × 25	0.15	0.95	EKMS315VSN181MP25S	
	820	30 × 25	0.15	2.26	EKMS181VSN821MR25S		220	22 × 30	0.15	1.10	EKMS315VSN221MP30S	
	1,000	22 × 45	0.15	2.40	EKMS181VSN102MP45S		220	25.4 × 25	0.15	1.10	EKMS315VSN221MQ25S	
	1,000	22 × 50	0.15	2.45	EKMS181VSN102MP50S		270	22 × 35	0.15	1.24	EKMS315VSN271MP35S	
	1,000	25.4 × 35	0.15	2.40	EKMS181VSN102MQ35S		330	22 × 40	0.15	1.40	EKMS315VSN331MP40S	
	1,000	25.4 × 40	0.15	2.45	EKMS181VSN102MQ40S		330	25.4 × 30	0.15	1.38	EKMS315VSN331MQ30S	
	1,000	30 × 30	0.15	2.52	EKMS181VSN102MR30S		330	30 × 25	0.15	1.43	EKMS315VSN331MR25S	
	1,200	25.4 × 45	0.15	2.73	EKMS181VSN122MQ45S		390	22 × 45	0.15	1.56	EKMS315VSN391MP45S	
	1,200	30 × 35	0.15	2.83	EKMS181VSN122MR35S		390	22 × 50	0.15	1.59	EKMS315VSN391MP50S	
	1,200	35 × 25	0.15	2.91	EKMS181VSN122MA25S		390	25.4 × 35	0.15	1.57	EKMS315VSN391MQ35S	
	1,500	25.4 × 50	0.15	3.10	EKMS181VSN152MQ50S		470	25.4 × 40	0.15	1.76	EKMS315VSN471MQ40S	
	1,500	30 × 40	0.15	3.26	EKMS181VSN152MR40S		470	30 × 30	0.15	1.73	EKMS315VSN471MR30S	
	1,500	35 × 30	0.15	3.31	EKMS181VSN152MA30S		470	35 × 25	0.15	1.82	EKMS315VSN471MA25S	
	1,800	30 × 45	0.15	3.66	EKMS181VSN182MR45S		560	25.4 × 45	0.15	1.96	EKMS315VSN561MQ45S	
	1,800	35 × 35	0.15	3.68	EKMS181VSN182MA35S		560	25.4 × 50	0.15	1.99	EKMS315VSN561MQ50S	
2,200	30 × 50	0.15	4.11	EKMS181VSN222MR50S	560		30 × 35	0.15	1.93	EKMS315VSN561MR35S		
2,200	35 × 40	0.15	4.22	EKMS181VSN222MA40S	560		35 × 30	0.15	2.02	EKMS315VSN561MA30S		
2,700	35 × 45	0.15	4.78	EKMS181VSN272MA45S	680		30 × 40	0.15	2.19	EKMS315VSN681MR40S		
2,700	35 × 50	0.15	4.88	EKMS181VSN272MA50S	680		35 × 35	0.15	2.26	EKMS315VSN681MA35S		
200	390	22 × 25	0.15	1.34	EKMS201VSN391MP25S		820	30 × 45	0.15	2.47	EKMS315VSN821MR45S	
	470	22 × 30	0.15	1.54	EKMS201VSN471MP30S	820	30 × 50	0.15	2.51	EKMS315VSN821MR50S		
	560	22 × 35	0.15	1.72	EKMS201VSN561MP35S	820	35 × 40	0.15	2.57	EKMS315VSN821MA40S		
	560	25.4 × 25	0.15	1.67	EKMS201VSN561MQ25S	1,000	35 × 45	0.15	2.91	EKMS315VSN102MA45S		
	680	22 × 40	0.15	1.94	EKMS201VSN681MP40S	1,200	35 × 50	0.15	3.25	EKMS315VSN122MA50S		
	680	25.4 × 30	0.15	1.89	EKMS201VSN681MQ30S	400	120	22 × 25	0.15	0.77	EKMS401VSN121MP25S	
	820	22 × 45	0.15	2.17	EKMS201VSN821MP45S		150	22 × 30	0.15	0.90	EKMS401VSN151MP30S	
	820	25.4 × 35	0.15	2.17	EKMS201VSN821MQ35S		180	22 × 35	0.15	1.02	EKMS401VSN181MP35S	
	820	30 × 25	0.15	2.26	EKMS201VSN821MR25S		180	25.4 × 25	0.15	0.99	EKMS401VSN181MQ25S	
	1,000	22 × 50	0.15	2.45	EKMS201VSN102MP50S		220	22 × 40	0.15	1.15	EKMS401VSN221MP40S	
	1,000	25.4 × 40	0.15	2.45	EKMS201VSN102MQ40S		220	25.4 × 30	0.15	1.13	EKMS401VSN221MQ30S	
	1,000	30 × 30	0.15	2.52	EKMS201VSN102MR30S		270	22 × 45	0.15	1.29	EKMS401VSN271MP45S	
	1,000	35 × 25	0.15	2.66	EKMS201VSN102MA25S		270	25.4 × 35	0.15	1.30	EKMS401VSN271MQ35S	
	1,200	25.4 × 45	0.15	2.73	EKMS201VSN122MQ45S		270	30 × 25	0.15	1.29	EKMS401VSN271MR25S	
	1,200	25.4 × 50	0.15	2.78	EKMS201VSN122MQ50S		330	22 × 50	0.15	1.47	EKMS401VSN331MP50S	
	1,200	30 × 35	0.15	2.83	EKMS201VSN122MR35S		330	25.4 × 40	0.15	1.47	EKMS401VSN331MQ40S	
	1,200	35 × 30	0.15	2.96	EKMS201VSN122MA30S		330	30 × 30	0.15	1.45	EKMS401VSN331MR30S	
	1,500	30 × 40	0.15	3.26	EKMS201VSN152MR40S		330	35 × 25	0.15	1.52	EKMS401VSN331MA25S	
	1,500	35 × 35	0.15	3.36	EKMS201VSN152MA35S		390	25.4 × 45	0.15	1.63	EKMS401VSN391MQ45S	

KMS 系列

◆标准品一览表

WV (V _{dc})	Cap (μF)	尺寸 φD×L (mm)	tan δ	额定纹波电流 (A _{ms} /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 (A _{ms} /105°C, 120Hz)	产品型号
400	390	25.4 × 50	0.15	1.66	EKMS401VSN391MQ50S	500	47	22 × 25	0.20	0.51	EKMS501VSN470MP25S
	390	30 × 35	0.15	1.61	EKMS401VSN391MR35S		56	22 × 30	0.20	0.58	EKMS501VSN560MP30S
	470	30 × 40	0.15	1.82	EKMS401VSN471MR40S		68	25.4 × 25	0.20	0.65	EKMS501VSN680MQ25S
	470	35 × 30	0.15	1.85	EKMS401VSN471MA30S		82	22 × 35	0.20	0.72	EKMS501VSN820MP35S
	560	30 × 45	0.15	2.04	EKMS401VSN561MR45S		82	25.4 × 30	0.20	0.74	EKMS501VSN820MQ30S
	560	30 × 50	0.15	2.07	EKMS401VSN561MR50S		100	22 × 45	0.20	0.83	EKMS501VSN101MP45S
	560	35 × 35	0.15	2.05	EKMS401VSN561MA35S		100	30 × 25	0.20	0.82	EKMS501VSN101MR25S
	680	35 × 40	0.15	2.34	EKMS401VSN681MA40S		120	22 × 50	0.20	0.93	EKMS501VSN121MP50S
	680	35 × 45	0.15	2.40	EKMS401VSN681MA45S		120	25.4 × 35	0.20	0.93	EKMS501VSN121MQ35S
820	35 × 50	0.15	2.69	EKMS401VSN821MA50S	120		30 × 30	0.20	0.91	EKMS501VSN121MR30S	
420	100	22 × 25	0.20	0.70	EKMS421VSN101MP25S		150	25.4 × 45	0.20	1.08	EKMS501VSN151MQ45S
	120	22 × 30	0.20	0.81	EKMS421VSN121MP30S		150	30 × 35	0.20	1.04	EKMS501VSN151MR35S
	120	25.4 × 25	0.20	0.81	EKMS421VSN121MQ25S		150	35 × 25	0.20	0.99	EKMS501VSN151MA25S
	150	22 × 35	0.20	0.93	EKMS421VSN151MP35S		180	25.4 × 50	0.20	1.20	EKMS501VSN181MQ50S
	180	22 × 40	0.20	1.04	EKMS421VSN181MP40S		180	30 × 40	0.20	1.17	EKMS501VSN181MR40S
	180	25.4 × 30	0.20	1.02	EKMS421VSN181MQ30S		180	35 × 30	0.20	1.10	EKMS501VSN181MA30S
	180	30 × 25	0.20	1.06	EKMS421VSN181MR25S		220	30 × 45	0.20	1.33	EKMS501VSN221MR45S
	220	22 × 45	0.20	1.17	EKMS421VSN221MP45S		220	35 × 35	0.20	1.23	EKMS501VSN221MA35S
	220	22 × 50	0.20	1.20	EKMS421VSN221MP50S	270	30 × 50	0.20	1.50	EKMS501VSN271MR50S	
	220	25.4 × 35	0.20	1.18	EKMS421VSN221MQ35S	270	35 × 40	0.20	1.42	EKMS501VSN271MA40S	
	220	30 × 30	0.20	1.18	EKMS421VSN221MR30S	330	35 × 45	0.20	1.60	EKMS501VSN331MA45S	
	270	25.4 × 40	0.20	1.33	EKMS421VSN271MQ40S	390	35 × 50	0.20	1.78	EKMS501VSN391MA50S	
	270	25.4 × 45	0.20	1.36	EKMS421VSN271MQ45S	470	35 × 60	0.20	2.03	EKMS501VSN471MA60S	
	270	35 × 25	0.20	1.38	EKMS421VSN271MA25S	550	82	22 × 35	0.20	0.72	EKMS551VSN820MP35S
	330	25.4 × 50	0.20	1.52	EKMS421VSN331MQ50S		82	25.4 × 30	0.20	0.74	EKMS551VSN820MQ30S
	330	30 × 35	0.20	1.48	EKMS421VSN331MR35S		100	22 × 45	0.20	0.83	EKMS551VSN101MP45S
	330	30 × 40	0.20	1.52	EKMS421VSN331MR40S		100	25.4 × 35	0.20	0.85	EKMS551VSN101MQ35S
	330	35 × 30	0.20	1.55	EKMS421VSN331MA30S		100	30 × 25	0.20	0.82	EKMS551VSN101MR25S
390	30 × 45	0.20	1.70	EKMS421VSN391MR45S	120		22 × 50	0.20	0.93	EKMS551VSN121MP50S	
390	35 × 35	0.20	1.71	EKMS421VSN391MA35S	120		25.4 × 40	0.20	0.95	EKMS551VSN121MQ40S	
470	30 × 50	0.20	1.90	EKMS421VSN471MR50S	120		30 × 30	0.20	0.91	EKMS551VSN121MR30S	
470	35 × 40	0.20	1.95	EKMS421VSN471MA40S	120		35 × 25	0.20	0.88	EKMS551VSN121MA25S	
560	35 × 45	0.20	2.17	EKMS421VSN561MA45S	150		25.4 × 45	0.20	1.08	EKMS551VSN151MQ45S	
680	35 × 50	0.20	2.45	EKMS421VSN681MA50S	150		30 × 35	0.20	1.04	EKMS551VSN151MR35S	
450	82	22 × 25	0.20	0.64	EKMS451VSN820MP25S		180	25.4 × 50	0.20	1.20	EKMS551VSN181MQ50S
	120	22 × 30	0.20	0.81	EKMS451VSN121MP30S		180	30 × 40	0.20	1.17	EKMS551VSN181MR40S
	120	22 × 35	0.20	0.83	EKMS451VSN121MP35S		180	35 × 30	0.20	1.10	EKMS551VSN181MA30S
	120	25.4 × 25	0.20	0.81	EKMS451VSN121MQ25S		220	30 × 45	0.20	1.33	EKMS551VSN221MR45S
	150	22 × 40	0.20	0.94	EKMS451VSN151MP40S		220	35 × 35	0.20	1.23	EKMS551VSN221MA35S
	150	25.4 × 30	0.20	0.93	EKMS451VSN151MQ30S		270	30 × 50	0.20	1.50	EKMS551VSN271MR50S
	180	22 × 45	0.20	1.06	EKMS451VSN181MP45S		270	35 × 40	0.20	1.42	EKMS551VSN271MA40S
	180	25.4 × 35	0.20	1.06	EKMS451VSN181MQ35S	330	35 × 45	0.20	1.60	EKMS551VSN331MA45S	
	180	30 × 25	0.20	1.06	EKMS451VSN181MR25S	330	35 × 50	0.20	1.64	EKMS551VSN331MA50S	
	220	22 × 50	0.20	1.20	EKMS451VSN221MP50S	470	35 × 60	0.20	2.03	EKMS551VSN471MA60S	
	220	25.4 × 40	0.20	1.20	EKMS451VSN221MQ40S	600	100	30 × 30	0.20	0.83	EKMS601VSN101MR30S
	220	30 × 30	0.20	1.18	EKMS451VSN221MR30S		100	35 × 25	0.20	0.85	EKMS601VSN101MA25S
	220	35 × 25	0.20	1.24	EKMS451VSN221MA25S		120	30 × 35	0.20	0.93	EKMS601VSN121MR35S
	270	25.4 × 45	0.20	1.36	EKMS451VSN271MQ45S		150	30 × 40	0.20	1.07	EKMS601VSN151MR40S
	270	25.4 × 50	0.20	1.38	EKMS451VSN271MQ50S		150	35 × 30	0.20	1.06	EKMS601VSN151MA30S
	270	30 × 35	0.20	1.34	EKMS451VSN271MR35S		180	30 × 45	0.20	1.20	EKMS601VSN181MR45S
	270	35 × 30	0.20	1.40	EKMS451VSN271MA30S		180	30 × 50	0.20	1.22	EKMS601VSN181MR50S
	330	30 × 40	0.20	1.52	EKMS451VSN331MR40S		180	35 × 35	0.20	1.18	EKMS601VSN181MA35S
390	30 × 45	0.20	1.70	EKMS451VSN391MR45S	220		30 × 60	0.20	1.40	EKMS601VSN221MR60S	
390	30 × 50	0.20	1.73	EKMS451VSN391MR50S	220		35 × 40	0.20	1.35	EKMS601VSN221MA40S	
390	35 × 35	0.20	1.71	EKMS451VSN391MA35S	220		35 × 45	0.20	1.38	EKMS601VSN221MA45S	
470	35 × 40	0.20	1.95	EKMS451VSN471MA40S	270		35 × 50	0.20	1.56	EKMS601VSN271MA50S	
470	35 × 45	0.20	1.99	EKMS451VSN471MA45S	330		35 × 60	0.20	1.79	EKMS601VSN331MA60S	
560	35 × 50	0.20	2.22	EKMS451VSN561MA50S							

◆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
160~250V _{dc}	0.81	1.00	1.17	1.32	1.45	1.50
315~450V _{dc}	0.77	1.00	1.16	1.30	1.41	1.43
500~600V _{dc}	0.70	1.00	1.16	1.30	1.41	1.43

※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”。