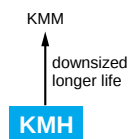


KMH Series

- Endurance with ripple current : 105°C 2000 hours
- Non solvent-proof type
- Pb-free design

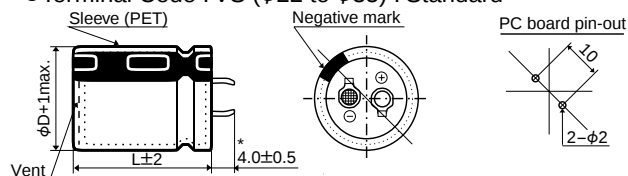


SPECIFICATIONS

Items	Characteristics										
Category	Temperature Range										
Rated Voltage Range	6.3 to 100V _{dc}										
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
Leakage Current	I=0.02CV or 3mA, whichever is smaller Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)										
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	(at 20°C, 120Hz)
	tanδ (Max.)	0.60	0.50	0.40	0.30	0.25	0.20	0.15	0.15	0.15	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	(at 120Hz)
	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	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2000 hours at 105°C.										
	Capacitance change	≤±20% of the initial value									
	D.F. (tanδ)	≤200% of the initial specified value									
	Leakage current	≤The initial specified value									
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.										
	Capacitance change	≤±20% of the initial value									
	D.F. (tanδ)	≤150% of the initial specified value									
	Leakage current	≤The initial specified value									

DIMENSIONS [mm]

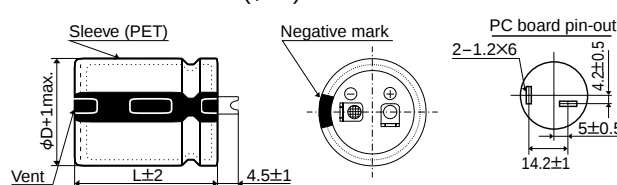
- Terminal Code : VS (φ22 to φ35) : Standard



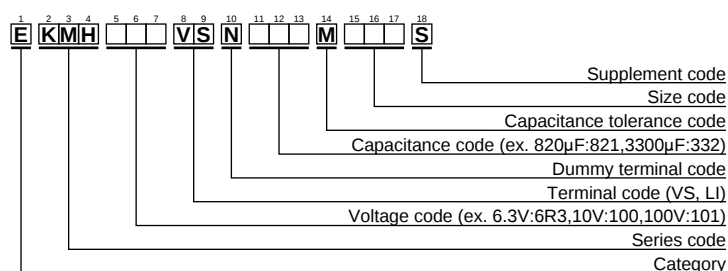
*φD=35mm : 3.5±0.5mm

No plastic disk is the standard design

- Terminal Code : LI (φ35)



PART NUMBERING SYSTEM



Please refer to "A guide to global code (snap-in type)"

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105°C,120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105°C,120Hz)	Part No.
6.3	12000	22×25	0.60	1.54	EKMH6R3VSN123MP25S	16	27000	35×30	0.40	3.45	EKMH160VSN273MA30S
	15000	22×25	0.60	1.72	EKMH6R3VSN153MP25S		33000	30×45	0.40	4.30	EKMH160VSN333MR45S
	18000	22×30	0.60	1.95	EKMH6R3VSN183MP30S		33000	35×35	0.40	4.26	EKMH160VSN333MA35S
	18000	25.4×25	0.60	1.96	EKMH6R3VSN183MQ25S		39000	30×50	0.40	4.81	EKMH160VSN393MR50S
	22000	22×35	0.60	2.23	EKMH6R3VSN223MP35S		39000	35×40	0.40	4.79	EKMH160VSN393MA40S
	22000	25.4×30	0.60	2.25	EKMH6R3VSN223MQ30S		47000	35×45	0.40	5.43	EKMH160VSN473MA45S
	22000	30×25	0.60	2.28	EKMH6R3VSN223MR25S		4700	22×25	0.30	1.50	EKMH250VSN472MP25S
	27000	22×40	0.60	2.54	EKMH6R3VSN273MP40S		5600	22×25	0.30	1.63	EKMH250VSN562MP25S
	27000	25.4×35	0.60	2.57	EKMH6R3VSN273MQ35S		6800	22×30	0.30	1.86	EKMH250VSN682MP30S
	27000	30×25	0.60	2.52	EKMH6R3VSN273MR25S		6800	25.4×25	0.30	1.87	EKMH250VSN682MQ25S
	33000	22×45	0.60	2.88	EKMH6R3VSN333MP45S		8200	22×35	0.30	2.11	EKMH250VSN822MP35S
	33000	25.4×40	0.60	2.93	EKMH6R3VSN333MQ40S	25	8200	25.4×30	0.30	2.12	EKMH250VSN822MQ30S
	33000	30×30	0.60	2.89	EKMH6R3VSN333MR30S		8200	30×25	0.30	2.15	EKMH250VSN822MR25S
	33000	35×25	0.60	2.93	EKMH6R3VSN333MA25S		10000	22×40	0.30	2.39	EKMH250VSN103MR40S
	39000	25.4×40	0.60	3.18	EKMH6R3VSN393MQ40S		10000	25.4×35	0.30	2.42	EKMH250VSN103MQ35S
	39000	30×35	0.60	3.26	EKMH6R3VSN393MR35S		10000	30×25	0.30	2.37	EKMH250VSN103MR25S
	39000	35×30	0.60	3.40	EKMH6R3VSN393MA30S		12000	22×45	0.30	2.69	EKMH250VSN123MP45S
	47000	25.4×50	0.60	3.69	EKMH6R3VSN473MQ50S		12000	25.4×40	0.30	2.74	EKMH250VSN123MQ40S
	47000	30×40	0.60	3.69	EKMH6R3VSN473MR40S		12000	30×30	0.30	2.70	EKMH250VSN123MR30S
	47000	35×30	0.60	3.73	EKMH6R3VSN473MA30S		12000	35×25	0.30	2.74	EKMH250VSN123MA25S
	56000	30×45	0.60	4.16	EKMH6R3VSN563MR45S		15000	25.4×45	0.30	3.15	EKMH250VSN153MQ45S
	56000	35×35	0.60	4.12	EKMH6R3VSN563MA35S		15000	30×35	0.30	3.13	EKMH250VSN153MR35S
	68000	30×50	0.60	4.71	EKMH6R3VSN683MR50S		15000	35×30	0.30	3.27	EKMH250VSN153MA30S
	68000	35×40	0.60	4.69	EKMH6R3VSN683MA40S		18000	25.4×50	0.30	3.54	EKMH250VSN183MQ50S
	82000	35×45	0.60	5.32	EKMH6R3VSN823MA45S		18000	30×40	0.30	3.54	EKMH250VSN183MR40S
10	10000	22×25	0.50	1.55	EKMH100VSN103MP25S		18000	35×30	0.30	3.58	EKMH250VSN183MA30S
	12000	22×30	0.50	1.77	EKMH100VSN123MP30S		22000	30×45	0.30	4.04	EKMH250VSN223MR45S
	15000	22×30	0.50	1.97	EKMH100VSN153MP30S		22000	35×35	0.30	3.64	EKMH250VSN223MA35S
	15000	25.4×25	0.50	1.96	EKMH100VSN153MQ25S		27000	35×45	0.30	4.73	EKMH250VSN273MA45S
	18000	22×35	0.50	2.21	EKMH100VSN183MP35S		33000	35×50	0.30	5.39	EKMH250VSN333MA50S
	18000	25.4×30	0.50	2.23	EKMH100VSN183MQ30S	35	3300	22×25	0.25	1.40	EKMH350VSN332MP25S
	22000	22×40	0.50	2.51	EKMH100VSN223MP40S		3900	22×30	0.25	1.57	EKMH350VSN392MP30S
	22000	25.4×35	0.50	2.54	EKMH100VSN223MQ35S		4700	22×30	0.25	1.72	EKMH350VSN472MP30S
	22000	30×25	0.50	2.40	EKMH100VSN223MR25S		4700	25.4×25	0.25	1.80	EKMH350VSN472MQ25S
	27000	22×50	0.50	2.93	EKMH100VSN273MP50S		5600	22×35	0.25	1.95	EKMH350VSN562MP35S
	27000	25.4×40	0.50	2.90	EKMH100VSN273MQ40S		5600	25.4×30	0.25	1.96	EKMH350VSN562MQ30S
	27000	30×30	0.50	2.87	EKMH100VSN273MR30S		5600	30×25	0.25	1.99	EKMH350VSN562MR25S
	27000	35×25	0.50	2.73	EKMH100VSN273MA25S		6800	22×40	0.25	2.20	EKMH350VSN682MP40S
	33000	25.4×45	0.50	3.30	EKMH100VSN333MQ45S		6800	25.4×35	0.25	2.23	EKMH350VSN682MQ35S
	33000	30×35	0.50	3.28	EKMH100VSN333MR35S		6800	30×25	0.25	2.19	EKMH350VSN682MR25S
	33000	35×30	0.50	3.16	EKMH100VSN333MA30S		8200	22×50	0.25	2.55	EKMH350VSN822MP50S
	39000	25.4×50	0.50	3.68	EKMH100VSN393MQ50S		8200	25.4×40	0.25	2.53	EKMH350VSN822MQ40S
	39000	30×40	0.50	3.69	EKMH100VSN393MR40S		8200	30×30	0.25	2.75	EKMH350VSN822MR30S
	39000	35×30	0.50	3.43	EKMH100VSN393MA30S		8200	35×25	0.25	2.75	EKMH350VSN822MA25S
	47000	30×45	0.50	4.17	EKMH100VSN473MR45S		10000	25.4×45	0.25	2.87	EKMH350VSN103MQ45S
	47000	35×35	0.50	3.76	EKMH100VSN473MA35S		10000	30×35	0.25	2.90	EKMH350VSN103MR35S
	56000	30×50	0.50	4.68	EKMH100VSN563MR50S		10000	35×30	0.25	2.91	EKMH350VSN103MA30S
	56000	35×40	0.50	4.67	EKMH100VSN563MA40S		12000	25.4×50	0.25	3.24	EKMH350VSN123MQ50S
	68000	35×50	0.50	5.46	EKMH100VSN683MA50S		12000	30×40	0.25	3.23	EKMH350VSN123MR40S
16	6800	22×25	0.40	1.57	EKMH160VSN682MP25S		12000	35×30	0.25	2.99	EKMH350VSN123MA30S
	10000	22×30	0.40	1.97	EKMH160VSN103MP30S		15000	30×45	0.25	3.72	EKMH350VSN153MR45S
	10000	25.4×25	0.40	1.97	EKMH160VSN103MQ25S		15000	35×35	0.25	3.67	EKMH350VSN153MA35S
	12000	22×35	0.40	2.22	EKMH160VSN123MP35S		18000	35×40	0.25	4.37	EKMH350VSN183MA40S
	12000	25.4×30	0.40	2.24	EKMH160VSN123MQ30S		22000	35×50	0.25	4.92	EKMH350VSN223MA50S
	12000	30×25	0.40	2.45	EKMH160VSN123MR25S	50	1800	22×25	0.20	1.33	EKMH500VSN182MP25S
	15000	22×40	0.40	2.55	EKMH160VSN153MP40S		2700	22×30	0.20	1.69	EKMH500VSN272MP30S
	15000	25.4×35	0.40	2.58	EKMH160VSN153MQ35S		2700	25.4×25	0.20	1.70	EKMH500VSN272MQ25S
	15000	30×25	0.40	2.52	EKMH160VSN153MR25S		3300	22×35	0.20	1.93	EKMH500VSN232MP35S
	18000	22×45	0.40	2.87	EKMH160VSN183MP45S		3300	25.4×30	0.20	1.85	EKMH500VSN332MQ30S
	18000	25.4×40	0.40	2.92	EKMH160VSN183MQ40S		3900	22×40	0.20	2.16	EKMH500VSN392MP40S
	18000	30×30	0.40	2.88	EKMH160VSN183MR30S		3900	25.4×35	0.20	2.18	EKMH500VSN392MQ35S
	18000	35×25	0.40	2.92	EKMH160VSN183MA25S		3900	30×25	0.20	1.95	EKMH500VSN392MR25S
	22000	25.4×45	0.40	3.32	EKMH160VSN223MQ45S		4700	22×45	0.20	2.43	EKMH500VSN472MP45S
	22000	30×35	0.40	3.29	EKMH160VSN223MR35S		4700	25.4×35	0.20	2.39	EKMH500VSN472MQ35S
	22000	35×25	0.40	3.23	EKMH160VSN223MA25S		4700	30×30	0.20	2.25	EKMH500VSN472MR30S
	27000	25.4×50	0.40	3.78	EKMH160VSN273MQ50S		4700	35×25	0.20	2.48	EKMH500VSN472MA25S
	27000	30×40	0.40	3.77	EKMH160VSN273MR40S		5600	22×50	0.20	2.75	EKMH500VSN562MP50S

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
50	5600	25.4 × 40	0.20	2.70	EKMH500VSN562MQ40S	80	1800	25.4 × 30	0.15	1.76	EKMH800VSN182MQ30S
	5600	30 × 35	0.20	2.76	EKMH500VSN562MR35S		1800	30 × 25	0.15	1.65	EKMH800VSN182MR25S
	5600	35 × 25	0.20	2.70	EKMH500VSN562MA25S		2200	22 × 45	0.15	2.04	EKMH800VSN222MP45S
	6800	25.4 × 50	0.20	3.30	EKMH500VSN682MQ50S		2200	25.4 × 35	0.15	2.01	EKMH800VSN222MQ35S
	6800	30 × 40	0.20	3.30	EKMH500VSN682MR40S		2200	30 × 30	0.15	2.05	EKMH800VSN222MR30S
	6800	35 × 30	0.20	3.25	EKMH500VSN682MA30S		2200	35 × 25	0.15	2.07	EKMH800VSN222MA25S
	8200	30 × 45	0.20	3.60	EKMH500VSN822MR45S		2700	25.4 × 45	0.15	2.36	EKMH800VSN272MQ45S
	8200	35 × 35	0.20	3.55	EKMH500VSN822MA35S		2700	30 × 35	0.15	2.35	EKMH800VSN272MR35S
	10000	30 × 50	0.20	4.04	EKMH500VSN103MR50S		2700	35 × 25	0.15	2.29	EKMH800VSN272MA25S
	10000	35 × 40	0.20	4.03	EKMH500VSN103MA40S		3300	25.4 × 50	0.15	2.68	EKMH800VSN332MQ50S
63	12000	35 × 45	0.20	4.55	EKMH500VSN123MA45S		3300	30 × 40	0.15	2.68	EKMH800VSN332MR40S
	1200	22 × 25	0.15	1.19	EKMH630VSN122MP25S		3300	35 × 30	0.15	2.45	EKMH800VSN332MA30S
	1500	22 × 25	0.15	1.33	EKMH630VSN152MP25S		3900	30 × 45	0.15	3.00	EKMH800VSN392MR45S
	1800	22 × 30	0.15	1.51	EKMH630VSN182MP30S		3900	35 × 35	0.15	2.98	EKMH800VSN392MA35S
	1800	25.4 × 25	0.15	1.52	EKMH630VSN182MQ25S		4700	30 × 50	0.15	3.39	EKMH800VSN472MR50S
	2200	22 × 35	0.15	1.73	EKMH630VSN222MP35S		4700	35 × 40	0.15	3.38	EKMH800VSN472MA40S
	2200	25.4 × 30	0.15	1.74	EKMH630VSN222MQ30S		5600	35 × 45	0.15	3.80	EKMH800VSN562MA45S
	2700	22 × 40	0.15	1.97	EKMH630VSN272MP40S		6800	35 × 50	0.15	3.90	EKMH800VSN682MA50S
	2700	25.4 × 35	0.15	1.99	EKMH630VSN272MQ35S	100	560	22 × 25	0.15	1.05	EKMH101VSN561MP25S
	2700	30 × 25	0.15	1.76	EKMH630VSN272MR25S		820	22 × 30	0.15	1.32	EKMH101VSN821MP30S
80	3300	22 × 50	0.15	2.29	EKMH630VSN332MP50S		820	25.4 × 25	0.15	1.33	EKMH101VSN821MQ25S
	3300	25.4 × 40	0.15	2.27	EKMH630VSN332MQ40S		1000	22 × 35	0.15	1.50	EKMH101VSN102MP35S
	3300	30 × 30	0.15	2.24	EKMH630VSN332MR30S		1000	25.4 × 30	0.15	1.51	EKMH101VSN102MQ30S
	3300	35 × 25	0.15	2.06	EKMH630VSN332MA25S		1200	22 × 40	0.15	1.69	EKMH101VSN122MP40S
	3900	25.4 × 45	0.15	2.54	EKMH630VSN392MQ45S		1200	25.4 × 35	0.15	1.71	EKMH101VSN122MQ35S
	3900	30 × 35	0.15	2.55	EKMH630VSN392MR35S		1200	30 × 25	0.15	1.68	EKMH101VSN122MR25S
	3900	35 × 25	0.15	2.24	EKMH630VSN392MA25S		1500	22 × 45	0.15	1.94	EKMH101VSN152MP45S
	4700	25.4 × 50	0.15	2.86	EKMH630VSN472MQ50S		1500	25.4 × 40	0.15	1.98	EKMH101VSN152MQ40S
	4700	30 × 40	0.15	2.86	EKMH630VSN472MR40S		1500	30 × 30	0.15	1.95	EKMH101VSN152MR30S
	4700	35 × 30	0.15	2.79	EKMH630VSN472MA30S		1500	35 × 25	0.15	1.98	EKMH101VSN152MA25S
80	5600	30 × 45	0.15	3.22	EKMH630VSN562MR45S		1800	25.4 × 45	0.15	2.23	EKMH101VSN182MQ45S
	5600	35 × 35	0.15	3.19	EKMH630VSN562MA35S		1800	30 × 35	0.15	2.50	EKMH101VSN182MR35S
	6800	30 × 50	0.15	3.65	EKMH630VSN682MR50S		1800	35 × 25	0.15	2.17	EKMH101VSN182MA25S
	6800	35 × 40	0.15	3.64	EKMH630VSN682MA40S		2200	25.4 × 50	0.15	2.53	EKMH101VSN222MQ50S
	8200	35 × 45	0.15	3.90	EKMH630VSN822MA45S		2200	30 × 40	0.15	2.70	EKMH101VSN222MR40S
	10000	35 × 50	0.15	4.40	EKMH630VSN103MA50S		2200	35 × 30	0.15	2.50	EKMH101VSN222MA30S
	820	22 × 25	0.15	1.11	EKMH800VSN821MP25S		2700	30 × 45	0.15	2.88	EKMH101VSN272MR45S
	1000	22 × 25	0.15	1.22	EKMH800VSN102MP25S		2700	35 × 35	0.15	2.86	EKMH101VSN272MA35S
	1200	22 × 30	0.15	1.38	EKMH800VSN122MP30S		3300	30 × 50	0.15	3.28	EKMH101VSN332MR50S
	1200	25.4 × 25	0.15	1.39	EKMH800VSN122MQ25S		3300	35 × 40	0.15	3.27	EKMH101VSN332MA40S
80	1500	22 × 35	0.15	1.59	EKMH800VSN152MP35S		3900	35 × 45	0.15	3.67	EKMH101VSN392MA45S
	1500	25.4 × 30	0.15	1.61	EKMH800VSN152MQ30S		4700	35 × 50	0.15	3.80	EKMH101VSN472MA50S
	1800	22 × 40	0.15	1.80	EKMH800VSN182MP40S						

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

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