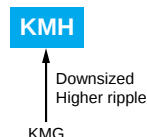


KMH Series

- Radial lead type ranging from φ20×20 to φ22×50mm
- For power supply input filtering
- Endurance with ripple current : 2,000 hours at 105°C
- Non solvent resistant type
- RoHS Compliant

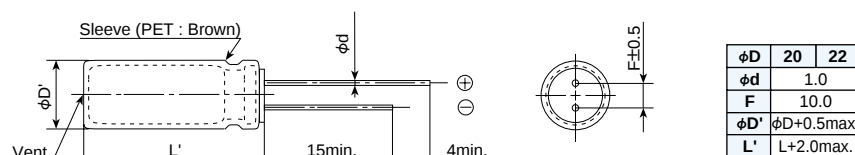


SPECIFICATIONS

Items	Characteristics		
Category	-25 to +105°C		
Temperature Range			
Rated Voltage Range	160 to 450V _{dc}		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I=0.03CV or 3 mA, 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)	0.15max. (at 20°C, 120Hz)		
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	160 to 250V	400 & 450V
	Z(-25°C)/Z(+20°C)	4	6
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 2,000 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 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. Capacitance change ≤±20% of the initial value D.F. (tanδ) ≤200% of the initial specified value Leakage current ≤500% of the initial specified value		

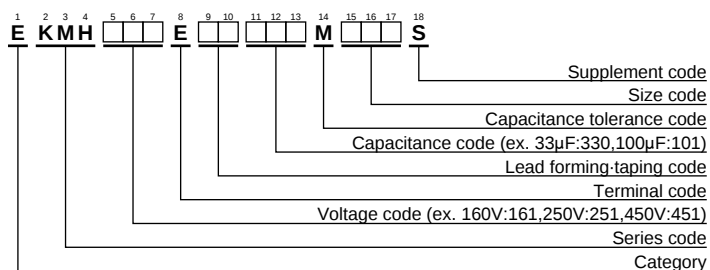
DIMENSIONS [mm]

- Terminal Code : E



*Note : The snap-in forming type "RC" is available upon request, the RC type fits two φ2mm holes with 10.5mm spacing.

PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (mA _{rms} /105°C,120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (mA _{rms} /105°C,120Hz)	Part No.
160	150	20×20	0.15	580	EKM161E□□151MN20S	250	220	22×30	0.15	950	EKM251E□□221MP30S
	180	20×25	0.15	690	EKM161E□□181MN25S		270	20×40	0.15	1,090	EKM251E□□271MN40S
	180	22×20	0.15	680	EKM161E□□181MP20S		270	22×35	0.15	1,140	EKM251E□□271MP35S
	220	20×25	0.15	760	EKM161E□□221MN25S		330	20×45	0.15	1,260	EKM251E□□331MN45S
	220	22×25	0.15	820	EKM161E□□221MP25S		330	22×40	0.15	1,300	EKM251E□□331MP40S
	270	20×30	0.15	910	EKM161E□□271MN30S		390	20×50	0.15	1,410	EKM251E□□391MN50S
	270	22×25	0.15	910	EKM161E□□271MP25S		390	22×45	0.15	1,490	EKM251E□□391MP45S
	330	20×30	0.15	1,010	EKM161E□□331MN30S		470	22×50	0.15	1,650	EKM251E□□471MP50S
	330	22×30	0.15	1,160	EKM161E□□331MP30S	400	33	20×20	0.15	290	EKM401E□□330MN20S
	390	20×35	0.15	1,150	EKM161E□□391MN35S		47	22×20	0.15	370	EKM401E□□470MP20S
	390	22×30	0.15	1,270	EKM161E□□391MP30S		56	20×25	0.15	410	EKM401E□□560MN25S
	470	20×40	0.15	1,340	EKM161E□□471MN40S		68	20×30	0.15	490	EKM401E□□680MN30S
200	470	22×35	0.15	1,400	EKM161E□□471MP35S		68	22×25	0.15	510	EKM401E□□680MP25S
	120	20×20	0.15	520	EKM201E□□121MN20S		100	20×35	0.15	620	EKM401E□□101MN35S
	150	20×25	0.15	630	EKM201E□□151MN25S		100	22×30	0.15	640	EKM401E□□101MP30S
	150	22×20	0.15	620	EKM201E□□151MP20S		120	20×40	0.15	720	EKM401E□□121MN40S
	180	20×25	0.15	690	EKM201E□□181MN25S		120	22×35	0.15	730	EKM401E□□121MP35S
	180	22×25	0.15	750	EKM201E□□181MP25S		150	20×45	0.15	850	EKM401E□□151MN45S
	220	20×30	0.15	820	EKM201E□□221MN30S		150	22×40	0.15	880	EKM401E□□151MP40S
	220	22×25	0.15	820	EKM201E□□221MP25S		180	20×50	0.15	960	EKM401E□□181MN50S
	270	20×30	0.15	910	EKM201E□□271MN30S		180	22×45	0.15	990	EKM401E□□181MP45S
	270	22×30	0.15	980	EKM201E□□271MP30S		220	22×50	0.15	1,130	EKM401E□□221MP50S
	330	20×35	0.15	1,050	EKM201E□□331MN35S	450	33	20×25	0.15	310	EKM451E□□330MN25S
	330	22×35	0.15	1,200	EKM201E□□331MP35S		47	22×25	0.15	420	EKM451E□□470MP25S
250	390	20×40	0.15	1,220	EKM201E□□391MN40S		56	20×30	0.15	440	EKM451E□□560MN30S
	390	22×35	0.15	1,310	EKM201E□□391MP35S		68	20×35	0.15	510	EKM451E□□680MN35S
	470	20×45	0.15	1,340	EKM201E□□471MN45S		68	22×30	0.15	520	EKM451E□□680MP30S
	470	22×40	0.15	1,450	EKM201E□□471MP40S		82	20×40	0.15	600	EKM451E□□820MN40S
	82	20×20	0.15	460	EKM251E□□820MN20S		82	22×35	0.15	600	EKM451E□□820MP35S
	120	20×25	0.15	600	EKM251E□□121MN25S		100	20×45	0.15	690	EKM451E□□101MN45S
	120	22×20	0.15	590	EKM251E□□121MP20S		100	22×40	0.15	710	EKM451E□□101MP40S
	180	20×30	0.15	790	EKM251E□□181MN30S		120	20×50	0.15	780	EKM451E□□121MN50S
	180	22×25	0.15	790	EKM251E□□181MP25S		120	22×45	0.15	810	EKM451E□□121MP45S
	220	20×35	0.15	920	EKM251E□□221MN35S		150	22×50	0.15	930	EKM451E□□151MP50S

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	10k	50k
160 to 250V _{dc}	0.81	1.00	1.17	1.32	1.45	1.50
400 & 450V _{dc}	0.77	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.