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℃
- ●Non solvent resistant type
- ●**RoHS Compliant**

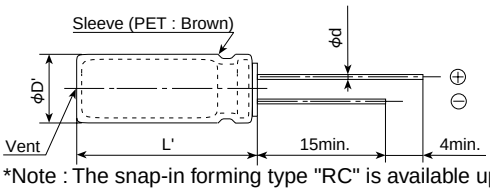
KMH
↑ Downsized, Higher ripple
KMG

◆SPECIFICATIONS

Items	Characteristics			
Category Temperature Range	−25 to +105℃			
Rated Voltage Range	160 to 450Vdc			
Capacitance Tolerance	±20% (M)			(at 20℃, 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℃ after 5 minutes)
Dissipation Factor (tanδ)	0.15max.			(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	160 to 250V	400 & 450V	
	Z(−25℃)/Z(+20℃)	4	6	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105℃.			
	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℃ after exposing them for 1,000 hours at 105℃ without voltage applied.			
	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]

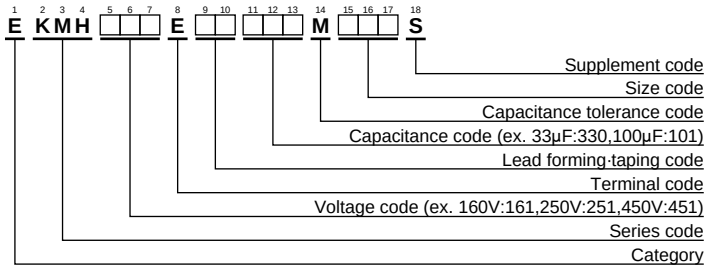
●Terminal Code : E



ϕD	20	22
ϕd	1.0	
F	10.0	
ϕD'	ϕD+0.5max.	
L'	L+2.0max.	

*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)"

KMH Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size ϕD×L(mm)	tanδ	Rated ripple current (mArms/ 105℃,120Hz)	Part No.
160	150	20×20	0.15	580	EKMH161E□□151MN20S
	180	20×25	0.15	690	EKMH161E□□181MN25S
	180	22×20	0.15	680	EKMH161E□□181MP20S
	220	20×25	0.15	760	EKMH161E□□221MN25S
	220	22×25	0.15	820	EKMH161E□□221MP25S
	270	20×30	0.15	910	EKMH161E□□271MN30S
	270	22×25	0.15	910	EKMH161E□□271MP25S
	330	20×30	0.15	1,010	EKMH161E□□331MN30S
	330	22×30	0.15	1,160	EKMH161E□□331MP30S
	390	20×35	0.15	1,150	EKMH161E□□391MN35S
	390	22×30	0.15	1,270	EKMH161E□□391MP30S
	470	20×40	0.15	1,340	EKMH161E□□471MN40S
	470	22×35	0.15	1,400	EKMH161E□□471MP35S
200	120	20×20	0.15	520	EKMH201E□□121MN20S
	150	20×25	0.15	630	EKMH201E□□151MN25S
	150	22×20	0.15	620	EKMH201E□□151MP20S
	180	20×25	0.15	690	EKMH201E□□181MN25S
	180	22×25	0.15	750	EKMH201E□□181MP25S
	220	20×30	0.15	820	EKMH201E□□221MN30S
	220	22×25	0.15	820	EKMH201E□□221MP25S
	270	20×30	0.15	910	EKMH201E□□271MN30S
	270	22×30	0.15	980	EKMH201E□□271MP30S
	330	20×35	0.15	1,050	EKMH201E□□331MN35S
	330	22×35	0.15	1,200	EKMH201E□□331MP35S
	390	20×40	0.15	1,220	EKMH201E□□391MN40S
	390	22×35	0.15	1,310	EKMH201E□□391MP35S
	470	20×45	0.15	1,340	EKMH201E□□471MN45S
	470	22×40	0.15	1,450	EKMH201E□□471MP40S
250	82	20×20	0.15	460	EKMH251E□□820MN20S
	120	20×25	0.15	600	EKMH251E□□121MN25S
	120	22×20	0.15	590	EKMH251E□□121MP20S
	180	20×30	0.15	790	EKMH251E□□181MN30S
	180	22×25	0.15	790	EKMH251E□□181MP25S
	220	20×35	0.15	920	EKMH251E□□221MN35S

WV (Vdc)	Cap (μF)	Case size ϕD×L(mm)	tanδ	Rated ripple current (mArms/ 105℃,120Hz)	Part No.
250	220	22×30	0.15	950	EKMH251E□□221MP30S
	270	20×40	0.15	1,090	EKMH251E□□271MN40S
	270	22×35	0.15	1,140	EKMH251E□□271MP35S
	330	20×45	0.15	1,260	EKMH251E□□331MN45S
	330	22×40	0.15	1,300	EKMH251E□□331MP40S
	390	20×50	0.15	1,410	EKMH251E□□391MN50S
	390	22×45	0.15	1,490	EKMH251E□□391MP45S
	470	22×50	0.15	1,650	EKMH251E□□471MP50S
400	33	20×20	0.15	290	EKMH401E□□330MN20S
	47	22×20	0.15	370	EKMH401E□□470MP20S
	56	20×25	0.15	410	EKMH401E□□560MN25S
	68	20×30	0.15	490	EKMH401E□□680MN30S
	68	22×25	0.15	510	EKMH401E□□680MP25S
	100	20×35	0.15	620	EKMH401E□□101MN35S
	100	22×30	0.15	640	EKMH401E□□101MP30S
	120	20×40	0.15	720	EKMH401E□□121MN40S
	120	22×35	0.15	730	EKMH401E□□121MP35S
	150	20×45	0.15	850	EKMH401E□□151MN45S
	150	22×40	0.15	880	EKMH401E□□151MP40S
	180	20×50	0.15	960	EKMH401E□□181MN50S
	180	22×45	0.15	990	EKMH401E□□181MP45S
	220	22×50	0.15	1,130	EKMH401E□□221MP50S
450	33	20×25	0.15	310	EKMH451E□□330MN25S
	47	22×25	0.15	420	EKMH451E□□470MP25S
	56	20×30	0.15	440	EKMH451E□□560MN30S
	68	20×35	0.15	510	EKMH451E□□680MN35S
	68	22×30	0.15	520	EKMH451E□□680MP30S
	82	20×40	0.15	600	EKMH451E□□820MN40S
	82	22×35	0.15	600	EKMH451E□□820MP35S
	100	20×45	0.15	690	EKMH451E□□101MN45S
	100	22×40	0.15	710	EKMH451E□□101MP40S
	120	20×50	0.15	780	EKMH451E□□121MN50S
	120	22×45	0.15	810	EKMH451E□□121MP45S
	150	22×50	0.15	930	EKMH451E□□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 250Vdc	0.81	1.00	1.17	1.32	1.45	1.50
400 & 450Vdc	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℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.