

KMF Series

- Endurance with ripple current: 105°C 2000 hours
- Pb-free design

KMF

↑
lower Z
longer life
KME

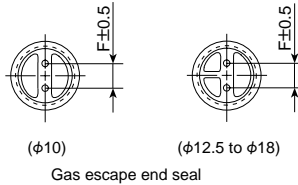
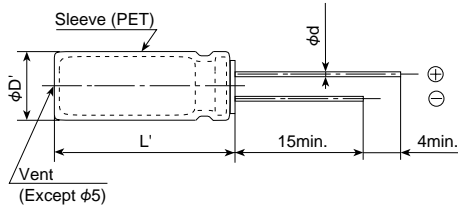


◆SPECIFICATIONS

Items	Characteristics			
Category Temperature Range	-40 to +105°C(160 to 400V _{dc}) -25 to +105°C(450V _{dc})			
Rated Voltage Range	160 to 450V _{dc}			
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)			
Leakage Current	CV	Time	After 1minute	After 5minutes
	CV≤1000		I=0.1CV+40	I=0.03CV+15
	CV>1000		I=0.04CV+100	I=0.02CV+25
	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C)			
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	160 to 250V	400V	450V
	tanδ (Max.)	0.20	0.24	0.24
	(at 20°C, 120Hz)			
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	160 to 250V	400V	450V
	Z(-25°C)/Z(+20°C)	3	5	6
	Z(-40°C)/Z(+20°C)	6	6	-
	(at 120Hz)			
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)	≤200% of the initial specified value		
	Leakage current	≤500% of the initial specified value		

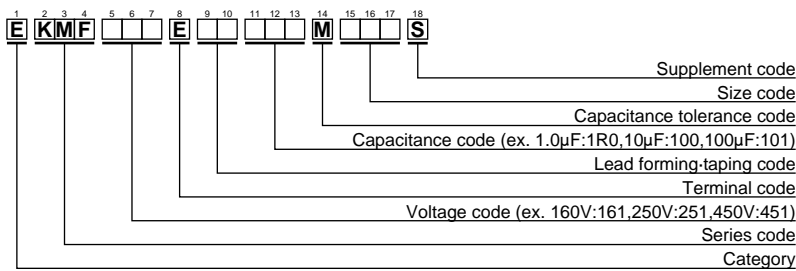
◆DIMENSIONS [mm]

- Terminal Code : E



φD	10	12.5	16	18
φd	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
φD'	φD+0.5max.			
L'	L+1.5max.			

◆PART NUMBERING SYSTEM



Please refer to "A guide to global code (radial lead type)"

KMF Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.	
160	10	10×16	1.5	250	EKMF161E□□100MJ16S	250	47	16×25	0.6	570	EKMF251E□□470ML25S	
	22	10×20	1.1	350	EKMF161E□□220MJ20S		100	18×35.5	0.3	935	EKMF251E□□101MMP1S	
	33	12.5×20	0.71	440	EKMF161E□□330MK20S		220	18×40	0.27	1000	EKMF251E□□221MM40S	
	47	12.5×25	0.46	600	EKMF161E□□470MK25S		400	3.3	10×20	2.9	195	EKMF401E□□3R3MJ20S
	100	16×25	0.24	910	EKMF161E□□101ML25S			4.7	10×25	2.3	220	EKMF401E□□4R7MJ25S
	220	18×35.5	0.14	1370	EKMF161E□□221MMP1S			10	12.5×25	1.2	360	EKMF401E□□100MK25S
200	10	10×16	1.5	250	EKMF201E□□100MJ16S	22		16×25	0.61	570	EKMF401E□□220ML25S	
	22	10×20	1.1	350	EKMF201E□□220MJ20S	33	16×31.5	0.46	700	EKMF401E□□330MLN3S		
	33	12.5×20	0.71	440	EKMF201E□□330MK20S	47	18×31.5	0.33	860	EKMF401E□□470MMN3S		
	47	12.5×25	0.46	600	EKMF201E□□470MK25S	450	2.2	10×16	7.9	110	EKMF451E□□2R2MJ16S	
	100	16×31.5	0.17	1160	EKMF201E□□101MLN3S		3.3	10×20	6.2	135	EKMF451E□□3R3MJ20S	
	220	18×35.5	0.14	1370	EKMF201E□□221MMP1S		4.7	12.5×20	3.7	190	EKMF451E□□4R7MK20S	
250	4.7	10×16	3.5	165	EKMF251E□□4R7MJ16S		10	12.5×25	2.6	250	EKMF451E□□100MK25S	
	10	10×20	2.8	230	EKMF251E□□100MJ20S	22	16×31.5	1.0	480	EKMF451E□□220MLN3S		
	22	12.5×25	1.2	360	EKMF251E□□220MK25S	33	18×35.5	0.62	650	EKMF451E□□330MMP1S		
	33	12.5×25	1.2	360	EKMF251E□□330MK25S							

□□ : Lead forming / Taping code

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Case code	Frequency(Hz)	120	1k	10k	100k
φ10		0.25	0.61	0.88	1.00
φ12.5 to φ18		0.35	0.66	0.89	1.00