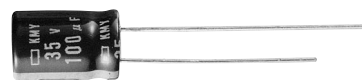


# KMY Series

- Endurance : 105°C 4,000 to 7,000 hours
- Long life and impedance specified version of KME series
- Non solvent-proof
- Pb-free design

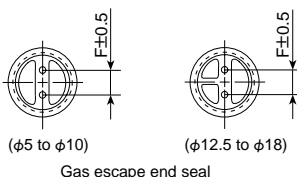
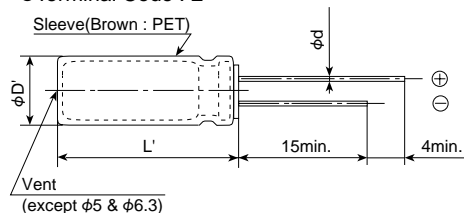


## ◆SPECIFICATIONS

Items	Characteristics	
Category	-40 to +105°C	
Temperature Range	-40 to +105°C	
Rated Voltage Range	10 to 50V <sub>dc</sub>	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	I=0.01CV or 3µA, whichever is greater. Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 2 minutes)	
Dissipation Factor (tanδ)	Rated voltage (V <sub>dc</sub> )	10V 16V 25V 35V 50V
	tanδ (Max.)	0.19 0.16 0.14 0.12 0.10
	When nominal capacitance exceeds 1,000µF, add 0.02 to the value above for each 1,000µF increase. (at 20°C, 120Hz)	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	10V 16V 25V 35V 50V
	Z(-25°C)/Z(+20°C)	3 2 2 2 2
	Z(-40°C)/Z(+20°C)	6 4 3 3 3
	(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 the specified period of time at 105°C.	
	Time	φ5 & 6.3 : 4,000hours φ8 & 10 : 5,000hours φ12.5 and larger : 7,000hours
	Capacitance change	≤±25% 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.	
	Capacitance change	≤±25% of the initial value
	D.F. (tanδ)	≤200% of the initial specified value
	Leakage current	≤The initial specified value

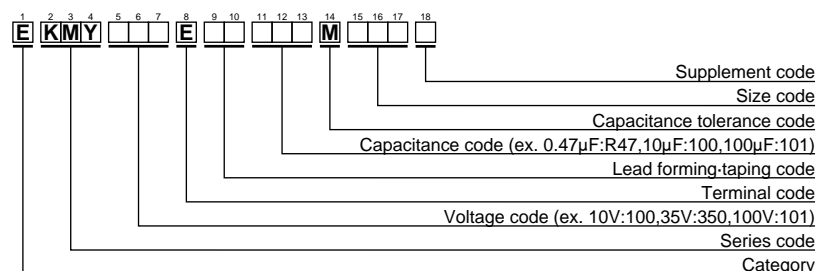
## ◆DIMENSIONS [mm]

- Terminal Code : E



φD	5	6.3	8	10	12.5	16	18
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φD'	φD+0.5max.						
L'	L+1.5max.						

## ◆PART NUMBERING SYSTEM



## ◆RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

Capacitance (µF)	Frequency (Hz)			
	120	1k	10k	100k
0.47 to 4.7	0.40	0.70	0.90	1.00
10 to 330	0.55	0.80	0.95	1.00
470 to 1,000	0.70	0.85	0.95	1.00
2,200 to 10,000	0.80	0.95	1.00	1.00

Specifications in this bulletin are subject to change without notice.

◆STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	Impedance (Ω <sub>max/20°C, 100kHz</sub> )	Rated ripple current (mA <sub>rms/105°C, 100kHz</sub> )	Part No.	WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	Impedance (Ω <sub>max/20°C, 100kHz</sub> )	Rated ripple current (mA <sub>rms/105°C, 100kHz</sub> )	Part No.
10	100	5×11.5	0.90	150	EKMY100E□□101MEB5D	25	2,200	16×25	0.034	1,850	EKMY250E□□222ML25S
	220	6.3×11.5	0.40	245	EKMY100E□□221MFB5D		3,300	16×31.5	0.029	2,000	EKMY250E□□332MLN3S
	330	8×12	0.25	395	EKMY100E□□331MH12D		4,700	18×35.5	0.025	2,200	EKMY250E□□472MMP1S
	470	8×12	0.25	395	EKMY100E□□471MH12D		35	33	5×11.5	0.90	150
	1,000	10×16	0.12	765	EKMY100E□□102MJ16S	47		6.3×11.5	0.40	245	EKMY350E□□470MFB5D
	2,200	12.5×20	0.062	1,300	EKMY100E□□222MK20S	100		8×12	0.25	395	EKMY350E□□101MH12D
	3,300	12.5×25	0.048	1,650	EKMY100E□□332MK25S	220		10×12.5	0.16	580	EKMY350E□□221MJC5S
	4,700	16×25	0.034	1,850	EKMY100E□□472ML25S	330		10×16	0.12	765	EKMY350E□□331MJ16S
	6,800	16×31.5	0.029	2,000	EKMY100E□□682MLN3S	470		10×20	0.078	1,010	EKMY350E□□471MJ20S
	10,000	18×35.5	0.025	2,200	EKMY100E□□103MMP1S	1,000		12.5×25	0.048	1,650	EKMY350E□□102MK25S
16	47	5×11.5	0.90	150	EKMY160E□□470MEB5D	2,200		16×31.5	0.029	2,000	EKMY350E□□222MLN3S
	100	6.3×11.5	0.40	245	EKMY160E□□101MFB5D	3,300	18×35.5	0.025	2,200	EKMY350E□□332MMP1S	
	220	8×12	0.25	395	EKMY160E□□221MH12D	50	0.47	5×11.5	5.5	17	EKMY500E□□R47MEB5D
	330	8×12	0.25	395	EKMY160E□□331MH12D		1.0	5×11.5	4.0	30	EKMY500E□□1R0MEB5D
	470	10×12.5	0.016	580	EKMY160E□□471MJC5S		2.2	5×11.5	2.5	43	EKMY500E□□2R2MEB5D
	1,000	10×20	0.078	1,010	EKMY160E□□102MJ20S		3.3	5×11.5	2.2	53	EKMY500E□□3R3MEB5D
	2,200	12.5×25	0.048	1,650	EKMY160E□□222MK25S		4.7	5×11.5	1.9	88	EKMY500E□□4R7MEB5D
	3,300	16×25	0.034	1,850	EKMY160E□□332ML25S		10	5×11.5	1.5	100	EKMY500E□□100MEB5D
	4,700	16×31.5	0.029	2,000	EKMY160E□□472MLN3S		22	5×11.5	0.90	150	EKMY500E□□220MEB5D
	6,800	18×35.5	0.025	2,200	EKMY160E□□682MMP1S		33	6.3×11.5	0.40	245	EKMY500E□□330MFB5D
25	33	5×11.5	0.90	150	EKMY250E□□330MEB5D		47	6.3×11.5	0.40	245	EKMY500E□□470MFB5D
	47	5×11.5	0.90	150	EKMY250E□□470MEB5D		100	8×12	0.25	395	EKMY500E□□101MH12D
	100	6.3×11.5	0.40	245	EKMY250E□□101MFB5D		220	10×16	0.12	765	EKMY500E□□221MJ16S
	220	8×12	0.25	395	EKMY250E□□221MH12D		330	10×20	0.088	1,010	EKMY500E□□331MJ20S
	330	10×12.5	0.16	580	EKMY250E□□331MJC5S	470	12.5×20	0.062	1,300	EKMY500E□□471MK20S	
	470	10×16	0.12	765	EKMY250E□□471MJ16S	1,000	16×25	0.034	1,850	EKMY500E□□102ML25S	
	1,000	12.5×20	0.062	1,300	EKMY250E□□102MK20S	2,200	18×35.5	0.025	2,200	EKMY500E□□222MMP1S	

□□ : Lead forming / Taping code