

KMY Series

- Endurance : 105°C 4,000 to 7,000 hours
- Non solvent resistant type
- RoHS Compliant

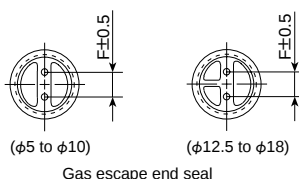
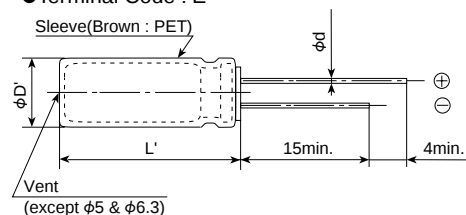


SPECIFICATIONS

Items	Characteristics									
Category	Temperature Range									
Rated Voltage Range	10 to 50V _{dc}									
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 _{dc})	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 _{dc})	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								

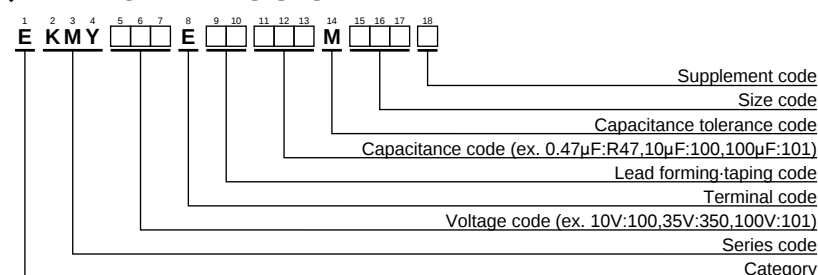
DIMENSIONS [mm]

- 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

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.

Specifications in this bulletin are subject to change without notice.

◆STANDARD RATINGS

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

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

Mouser Electronics

Authorized Distributor

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[EKMY350ELL221MJC5S](#) [EKMY350ELL101MH12D](#) [EKMY250ELL222ML25S](#)