

KMY Series

- Endurance : 105°C 4000 to 7000 hours
- Long life and impedance specified version of KME series
- Non solvent-proof

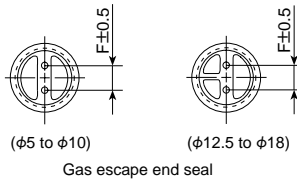
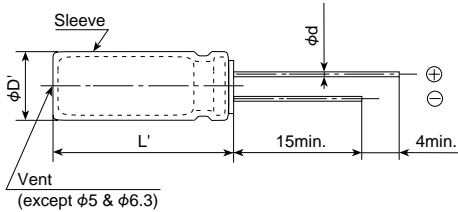
KMY ← KME
longer life



◆SPECIFICATIONS

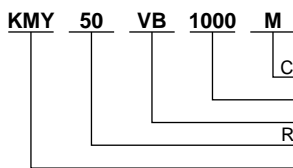
Items	Characteristics					
Category Temperature Range	-40 to +105°C					
Rated Voltage Range	10 to 50V _{dc}					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)					
Leakage Current	I=0.01CV or 3µA, whichever is greater. Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (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 1000µF, add 0.02 to the value above for each 1000µF 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
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 : 4000hours φ8 & 10 : 5000hours φ12.5 and larger : 7000hours				
	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 1000 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 (Radial Lead Type=VB) [mm]



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



Capacitance	Code
0.47µF	R47
1.0µF	1
4.7µF	4R7
10µF	10
100µF	100

◆STANDARD RATINGS

μF	Items	V _{dc}	10			16				
			Case size φD×L (mm)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)	Case size φD×L (mm)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)
				20°C	-10°C			20°C	-10°C	
47						5×11.5	0.9	3.6	150	
100			5×11.5	0.9	3.6	150	6.3×11.5	0.4	1.6	245
220			6.3×11.5	0.4	1.6	245	8×12	0.25	1.0	395
330			8×12	0.25	1.0	395	8×12	0.25	1.0	395
470			8×12	0.25	1.0	395	10×12.5	0.16	0.65	580
1,000			10×16	0.12	0.46	765	10×20	0.078	0.30	1,010
2,200			12.5×20	0.062	0.21	1,300	12.5×25	0.048	0.16	1,650
3,300			12.5×25	0.048	0.16	1,650	16×25	0.034	0.096	1,850
4,700			16×25	0.034	0.096	1,850	16×31.5	0.029	0.087	2,000
6,800			16×31.5	0.029	0.087	2,000	18×35.5	0.025	0.058	2,200
10,000			18×35.5	0.025	0.058	2,200				

μF	Items	V _{dc}	25			35				
			Case size φD×L (mm)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)	Case size φD×L (mm)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)
				20°C	-10°C			20°C	-10°C	
33			5×11.5	0.9	3.6	150	5×11.5	0.9	3.6	150
47			5×11.5	0.9	3.6	150	6.3×11.5	0.4	1.6	245
100			6.3×11.5	0.4	1.6	245	8×12	0.25	1.0	395
220			8×12	0.25	1.0	395	10×12.5	0.16	0.65	580
330			10×12.5	0.16	0.65	580	10×16	0.12	0.46	765
470			10×16	0.12	0.46	765	10×20	0.078	0.30	1,010
1,000			12.5×20	0.062	0.21	1,300	12.5×25	0.048	0.16	1,650
2,200			16×25	0.034	0.096	1,850	16×31.5	0.029	0.087	2,000
3,300			16×31.5	0.029	0.087	2,000	18×35.5	0.025	0.058	2,200
4,700			18×35.5	0.025	0.058	2,200				

μF	Items	V _{dc}	50			
			Case size φD×L (mm)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)
				20°C	-10°C	
0.47			5×11.5	5.5	22.0	17
1.0			5×11.5	4.0	16.0	30
2.2			5×11.5	2.5	10.0	43
3.3			5×11.5	2.2	8.8	53
4.7			5×11.5	1.9	7.6	88
10			5×11.5	1.5	6.0	100
22			5×11.5	0.9	3.6	150
33			6.3×11.5	0.4	1.6	245
47			6.3×11.5	0.4	1.6	245
100			8×12	0.25	1.0	395
220			10×16	0.12	0.46	765
330			10×20	0.088	0.34	1,010
470			12.5×20	0.062	0.21	1,300
1,000			16×25	0.034	0.096	1,850
2,200			18×35.5	0.025	0.058	2,200

◆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