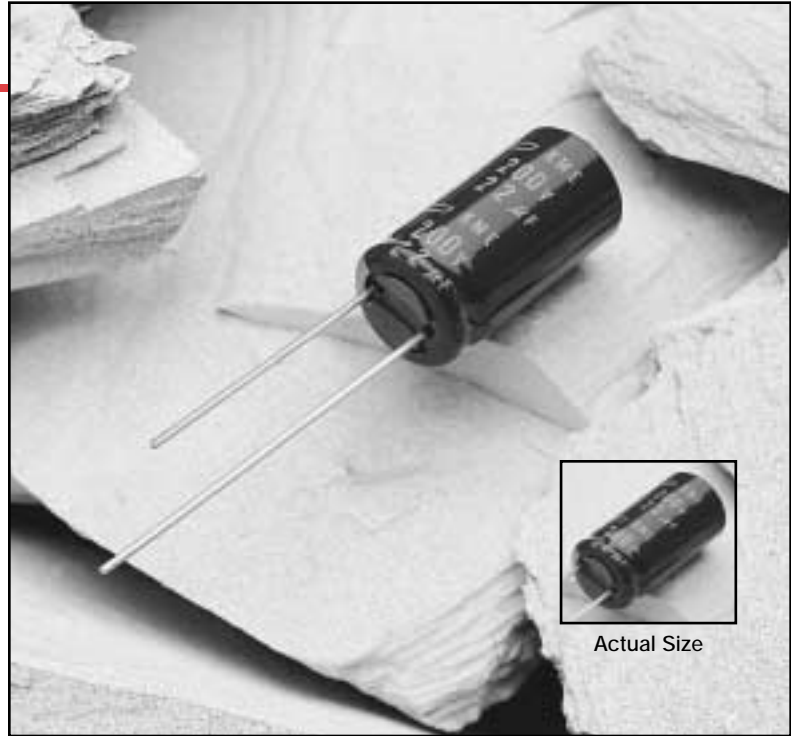


- Miniature
- General Purpose
- Solvent Proof
- +105°C  
Maximum  
Temperature



The KME series capacitors are our standard general purpose capacitors. These radial lead capacitors are available in a wide range of voltage and capacitance ratings and have a rated lifetime of 1,000 hours with the rated ripple current applied. The KME series capacitors with working voltage of 100 or under also have a very low DC leakage current, .002CV or  $2\mu\text{A}$ , whichever is greater after 2 minutes at +20°C.

The KME series capacitors, *except for those rated at 350-400 volts*, were developed to withstand HCFC cleaning agents for five minutes by ultrasonic, vapor or immersion. This solvent proof design allows all circuit board components to be cleaned together, at the same time, without resorting to more expensive epoxy end-sealed capacitors. Refer to the Mini-Glossary for recommended cleaning conditions.

## Summary of Specifications

- Radial lead terminals.
- Capacitance range: 0.1 to 15,000 $\mu\text{F}$ .
- Voltage range: 6.3 to 400VDC.
- Operating temperature range: -55°C to +105°C for 6.3 to 100V; -40°C to +105°C for 160 to 400V.
- Leakage current: See specifications table for leakage current values at +20°C.
- Standard capacitance tolerance:  $\pm 20\%$
- Nominal case size (D  $\times$  L): 5  $\times$  11mm to 18  $\times$  40mm.
- Rated lifetime: 1,000 hours at +105°C with the rated ripple current applied.

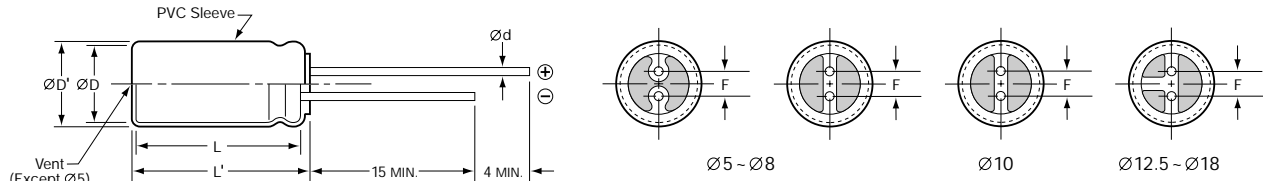
Item	Characteristics																																							
Operating Temperature Range	- 55 to +105°C for 6.3 to 100VDC; - 40 to +105°C for 160 to 400VDC																																							
Rated Voltage Range	6.3 to 400VDC																																							
Capacitance Range	0.1 to 15,000μF																																							
Capacitance Tolerance	± 20% (M) at +20°C, 120Hz																																							
Leakage Current	<p>At +20°C</p> <table border="1"> <thead> <tr> <th>DC Rated Voltage</th> <th>Test Time</th> <th colspan="2">Leakage Current (μA)</th> </tr> </thead> <tbody> <tr> <td>6.3-100V</td> <td>After 2 minutes</td> <td colspan="2">I = 0.002CV or 2μA, whichever is greater.</td> </tr> <tr> <td rowspan="2">160-400V</td> <td>After 1 minute</td> <td>CV ≤ 1,000: I = 0.1CV + 40</td> <td>CV &gt; 1,000: I = 0.04CV + 100</td> </tr> <tr> <td>After 5 minutes</td> <td>CV ≤ 1,000: I = 0.03CV + 15</td> <td>CV &gt; 1,000: I = 0.02CV + 25</td> </tr> </tbody> </table> <p>Where I = Leakage current (μA), C = Nominal capacitance (μF) and V = Rated voltage (V)</p>	DC Rated Voltage	Test Time	Leakage Current (μA)		6.3-100V	After 2 minutes	I = 0.002CV or 2μA, whichever is greater.		160-400V	After 1 minute	CV ≤ 1,000: I = 0.1CV + 40	CV > 1,000: I = 0.04CV + 100	After 5 minutes	CV ≤ 1,000: I = 0.03CV + 15	CV > 1,000: I = 0.02CV + 25																								
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Dissipation Factor (Tan δ)	<p>At +20°C, 120Hz</p> <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160-250</th> <th>350-400</th> </tr> </thead> <tbody> <tr> <td>Tan δ (DF)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table> <p>When nominal capacitance exceeds 1,000μF, add 0.02 to the values above for each 1,000μF increase.</p>	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160-250	350-400	Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.20	0.24																	
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Low Temperature Characteristics	<p>At 120Hz, impedance (Z) ratio between the - 25°C or - 40°C value and +20°C value shall not exceed the values given below.</p> <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63-100</th> <th>160-250</th> <th>350-400</th> </tr> </thead> <tbody> <tr> <td>Z (-25°C) / Z (+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>6</td> </tr> <tr> <td>Z (-40°C) / Z (+20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>6</td> </tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	63-100	160-250	350-400	Z (-25°C) / Z (+20°C)	4	3	2	2	2	2	2	3	6	Z (-40°C) / Z (+20°C)	8	6	4	3	3	3	3	4	6									
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Ripple Current Multipliers <i>Refer to Section 4 of the Mini-Glossary for explanation of Ripple Current Multipliers.</i>	<p>Ambient Temperature (°C)</p> <table border="1"> <thead> <tr> <th>+85°C</th> <th>+105°C</th> </tr> </thead> <tbody> <tr> <td>1.75</td> <td>1.00</td> </tr> </tbody> </table> <p>Frequency (Hz)</p> <table border="1"> <thead> <tr> <th>Capacitance (μF)</th> <th>50Hz</th> <th>120Hz</th> <th>300Hz</th> <th>1kHz</th> <th>10kHz</th> <th>100kHz</th> </tr> </thead> <tbody> <tr> <td>≤ 3.3μF</td> <td>0.65</td> <td>1.00</td> <td>1.35</td> <td>1.75</td> <td>2.30</td> <td>2.50</td> </tr> <tr> <td>4.7-33μF</td> <td>0.75</td> <td>1.00</td> <td>1.25</td> <td>1.50</td> <td>1.75</td> <td>1.80</td> </tr> <tr> <td>47-1000μF</td> <td>0.80</td> <td>1.00</td> <td>1.15</td> <td>1.30</td> <td>1.40</td> <td>1.50</td> </tr> <tr> <td>≥ 2200μF</td> <td>0.85</td> <td>1.00</td> <td>1.03</td> <td>1.05</td> <td>1.08</td> <td>1.08</td> </tr> </tbody> </table>	+85°C	+105°C	1.75	1.00	Capacitance (μF)	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz	≤ 3.3μF	0.65	1.00	1.35	1.75	2.30	2.50	4.7-33μF	0.75	1.00	1.25	1.50	1.75	1.80	47-1000μF	0.80	1.00	1.15	1.30	1.40	1.50	≥ 2200μF	0.85	1.00	1.03	1.05	1.08	1.08
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Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to +20°C after subjecting them to the DC rated voltage for 1,000 hours at +105°C with the rated ripple current applied. The sum of DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors.</p> <p>Capacitance change: ≤ ± 20% of initial measured value            Tan δ (DF) : ≤ 200% of initial specified value            Leakage current : ≤ initial specified value</p>																																							
Shelf Life	<p>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. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <p>Capacitance change: ≤ ± 20% of initial measured value            Tan δ (DF) : ≤ 200% of initial specified value            Leakage current : ≤ initial specified value for 6.3-100V                                      : ≤ 500% of initial specified value for 160-400V</p>																																							
Others	Satisfies characteristic W of JIS C5141																																							

# KME Series

## Diagram of Dimensions

### VB/Radial Lead

Unit: mm



Gas escape end seal for all case diameters.

For optional lead configurations and tape and ammo packaging, refer to the beginning of the Miniature section.

ØD	ØD' max.	L' max.	Ød	F ± 0.5
5	ØD + 0.5	L + 1.5	0.5	2.0
6.3	ØD + 0.5	L + 1.5	0.5	2.5
8	ØD + 0.5	L + 1.5	0.6	3.5
10, 12.5	ØD + 0.5	L + 1.5	0.6	5.0
16, 18	ØD + 0.5	L + 1.5	0.8	7.5

## Part Numbering System for KME Series

When ordering, always specify complete catalog number for KME Series.

**KME 200 VB 22R M 10X20 LL**

- Lead Length: LL is Standard.
- Case Code: See Case Sizes in Tables.
- Capacitance Tolerance: M = ± 20%
- Capacitance Value: Expressed in Microfarads. The first two digits are significant figures, and the third digit indicates the number of zeros for capacitance of 100µF or more. R indicates the decimal point for capacitance less than 100µF (e.g. R22 = .22µF; 2R2 = 2.2µF; 22R = 22µF; 221 = 220µF; 222 = 2,200µF; 223 = 22,000µF).
- Lead Configuration: VB = Radial Lead.
- DC Rated Voltage: Expressed in Volts (e.g. 200 = 200WVDC).
- Series Name: Indicates Basic Capacitor Design.

## Standard Voltage Ratings - VB/Radial Lead

Rated Voltage (WVDC)	Capacitance (µF)	Catalog Part Number	Nominal Case Size* D × L (mm)	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (mA rms) at +105°C, 120Hz
6.3 Volts 8 Volts Surge	33	KME6.3VB33RM5X11LL	5 × 11	11.05	54
	47	KME6.3VB47RM5X11LL	5 × 11	7.759	65
	100	KME6.3VB101M5X11LL	5 × 11	3.647	95
	220	KME6.3VB221M6X11LL	6.3 × 11	1.658	160
	330	KME6.3VB331M6X11LL	6.3 × 11	1.105	195
	470	KME6.3VB471M8X11LL	8 × 11.5	0.776	270
	1,000	KME6.3VB102M10X12LL	10 × 12.5	0.365	460
	2,200	KME6.3VB222M12X20LL	12.5 × 20	0.181	810
	3,300	KME6.3VB332M12X20LL	12.5 × 20	0.131	960
	4,700	KME6.3VB472M16X25LL	16 × 25	0.099	1,330
	6,800	KME6.3VB682M16X25LL	16 × 25	0.078	1,500
	10,000	KME6.3VB103M16X31LL	16 × 31.5	0.066	1,765
15,000	KME6.3VB153M18X35LL	18 × 35.5	0.055	2,075	

\* The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

# KME Series

## Standard Voltage Ratings - VB/Radial Lead

Rated Voltage (WVDC)	Capacitance (µF)	Catalog Part Number	Nominal Case Size* D×L (mm)	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (mA rms) at +105°C, 120Hz
<b>10 Volts</b> 13 Volts Surge	22	KME10VB22RM5X11LL	5 × 11	14.315	49
	33	KME10VB33RM5X11LL	5 × 11	9.543	60
	47	KME10VB47RM5X11LL	5 × 11	6.701	70
	100	KME10VB101M5X11LL	5 × 11	3.149	105
	220	KME10VB221M6X11LL	6.3 × 11	1.431	175
	330	KME10VB331M8X11LL	8 × 11.5	0.954	245
	470	KME10VB471M8X11LL	8 × 11.5	0.67	290
	1,000	KME10VB102M10X16LL	10 × 16	0.315	550
	2,200	KME10VB222M12X20LL	12.5 × 20	0.158	860
	3,300	KME10VB332M12X25LL	12.5 × 25	0.116	1,100
	4,700	KME10VB472M16X25LL	16 × 25	0.088	1,400
	6,800	KME10VB682M16X31LL	16 × 31.5	0.071	1,690
10,000	KME10VB103M18X35LL	18 × 35.5	0.061	1,950	
<b>16 Volts</b> 20 Volts Surge	10	KME16VB10RM5X11LL	5 × 11	26.52	35
	22	KME16VB22RM5X11LL	5 × 11	12.055	54
	33	KME16VB33RM5X11LL	5 × 11	8.036	64
	47	KME16VB47RM5X11LL	5 × 11	5.643	77
	100	KME16VB101M6X11LL	6.3 × 11	2.652	125
	220	KME16VB221M8X11LL	8 × 11.5	1.205	215
	330	KME16VB331M8X11LL	8 × 11.5	0.804	260
	470	KME16VB471M10X12LL	10 × 12.5	0.564	370
	1,000	KME16VB102M10X20LL	10 × 20	0.265	640
	2,200	KME16VB222M12X25LL	12.5 × 25	0.136	1,000
	3,300	KME16VB332M16X25LL	16 × 25	0.1	1,300
	4,700	KME16VB472M16X31LL	16 × 31.5	0.078	1,600
	6,800	KME16VB682M18X35LL	18 × 35.5	0.063	1,900
	10,000	KME16VB103M18X40LL	18 × 40	0.061	2,060
<b>25 Volts</b> 32 Volts Surge	4.7	KME25VB4R7M5X11LL	5 × 11	49.372	26
	10	KME25VB10RM5X11LL	5 × 11	23.205	38
	22	KME25VB22RM5X11LL	5 × 11	10.548	57
	33	KME25VB33RM5X11LL	5 × 11	7.032	69
	47	KME25VB47RM5X11LL	5 × 11	4.937	82
	100	KME25VB101M6X11LL	6.3 × 11	2.321	135
	220	KME25VB221M8X11LL	8 × 11.5	1.055	230
	330	KME25VB331M10X12LL	10 × 12.5	0.703	335
	470	KME25VB471M10X16LL	10 × 16	0.494	440
	1,000	KME25VB102M12X20LL	12.5 × 20	0.232	770
	2,200	KME25VB222M16X25LL	16 × 25	0.121	1,170
	3,300	KME25VB332M16X31LL	16 × 31.5	0.09	1,460
	4,700	KME25VB472M18X35LL	18 × 35.5	0.071	1,780
	6,800	KME25VB682M18X40LL	18 × 40	0.059	1,950
<b>35 Volts</b> 44 Volts Surge	4.7	KME35VB4R7M5X11LL	5 × 11	42.319	28
	10	KME35VB10RM5X11LL	5 × 11	19.89	41
	22	KME35VB22RM5X11LL	5 × 11	9.041	61
	33	KME35VB33RM5X11LL	5 × 11	6.027	75
	47	KME35VB47RM6X11LL	6.3 × 11	4.232	100
	100	KME35VB101M8X11LL	8 × 11.5	1.989	170
	220	KME35VB221M10X12LL	10 × 12.5	0.904	300
	330	KME35VB331M10X16LL	10 × 16	0.603	400
	470	KME35VB471M10X20LL	10 × 20	0.423	520
	1,000	KME35VB102M12X25LL	12.5 × 25	0.199	920
	2,200	KME35VB222M16X31LL	16 × 31.5	0.105	1,340
	3,300	KME35VB332M18X35LL	18 × 35.5	0.08	1,650
	4,700	KME35VB472M18X40LL	18 × 40	0.063	1,900

\*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

# KME Series

## Standard Voltage Ratings - VB/Radial Lead

Rated Voltage (WVDC)	Capacitance (µF)	Catalog Part Number	Nominal Case Size* D × L (mm)	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (mA rms) at +105°C, 120Hz
<b>50 Volts</b> 63 Volts Surge	0.1	KME50VBR10M5X11LL	5 × 11	1,657.5	1.3
	0.22	KME50VBR22M5X11LL	5 × 11	753.409	2.9
	0.33	KME50VBR33M5X11LL	5 × 11	502.273	4.4
	0.47	KME50VBR47M5X11LL	5 × 11	352.66	7.0
	1.0	KME50VB1R0M5X11LL	5 × 11	165.75	13
	2.2	KME50VB2R2M5X11LL	5 × 11	75.341	20
	3.3	KME50VB3R3M5X11LL	5 × 11	50.227	25
	4.7	KME50VB4R7M5X11LL	5 × 11	35.266	30
	10	KME50VB10RM5X11LL	5 × 11	16.575	46
	22	KME50VB22RM5X11LL	5 × 11	7.534	68
	33	KME50VB33RM6X11LL	6.3 × 11	5.023	90
	47	KME50VB47RM6X11LL	6.3 × 11	3.527	110
	100	KME50VB101M8X11LL	8 × 11.5	1.658	180
	220	KME50VB221M10X16LL	10 × 16	0.753	345
	330	KME50VB331M10X20LL	10 × 20	0.502	460
	470	KME50VB471M12X20LL	12.5 × 20	0.353	610
1,000	KME50VB102M16X25LL	16 × 25	0.166	1,080	
2,200	KME50VB222M18X35LL	18 × 35.5	0.09	1,530	
<b>63 Volts</b> 79 Volts Surge	4.7	KME63VB4R7M5X11LL	5 × 11	31.739	32
	10	KME63VB10RM5X11LL	5 × 11	14.918	50
	22	KME63VB22RM6X11LL	6.3 × 11	6.781	82
	33	KME63VB33RM6X11LL	6.3 × 11	4.52	100
	47	KME63VB47RM8X11LL	8 × 11.5	3.174	135
	100	KME63VB101M10X12LL	10 × 12.5	1.492	225
	220	KME63VB221M10X20LL	10 × 20	0.678	400
	330	KME63VB331M12X20LL	12.5 × 20	0.452	540
	470	KME63VB471M12X25LL	12.5 × 25	0.317	700
1,000	KME63VB102M16X31LL	16 × 31.5	0.149	1,210	
<b>100 Volts</b> 125 Volts Surge	0.1	KME100VBR10M5X11LL	5 × 11	1,326.0	2.6
	0.22	KME100VBR22M5X11LL	5 × 11	602.727	5.8
	0.33	KME100VBR33M5X11LL	5 × 11	401.818	7.8
	0.47	KME100VBR47M5X11LL	5 × 11	282.128	10
	1.0	KME100VB1R0M5X11LL	5 × 11	132.6	15
	2.2	KME100VB2R2M5X11LL	5 × 11	60.273	23
	3.3	KME100VB3R3M5X11LL	5 × 11	40.182	29
	4.7	KME100VB4R7M5X11LL	5 × 11	28.213	34
	10	KME100VB10RM6X11LL	6.3 × 11	13.26	56
	22	KME100VB22RM8X11LL	8 × 11.5	6.027	96
	33	KME100VB33RM10X12LL	10 × 12.5	4.018	140
	47	KME100VB47RM10X16LL	10 × 16	2.821	180
	100	KME100VB101M12X20LL	12.5 × 20	1.326	320
	220	KME100VB221M16X25LL	16 × 25	0.603	570
330	KME100VB331M16X25LL	16 × 25	0.402	700	
470	KME100VB471M16X31LL	16 × 31.5	0.282	880	
<b>160 Volts</b> 200 Volts Surge	0.47	KME160VBR47M6X11LL	6.3 × 11	705.319	9.0
	1.0	KME160VB1R0M6X11LL	6.3 × 11	331.5	12
	2.2	KME160VB2R2M6X11LL	6.3 × 11	150.682	19
	3.3	KME160VB3R3M8X11LL	8 × 11.5	100.455	26
	4.7	KME160VB4R7M8X11LL	8 × 11.5	70.532	31
	10	KME160VB10RM10X16LL	10 × 16	33.15	59
	22	KME160VB22RM10X20LL	10 × 20	15.068	95
	33	KME160VB33RM12X20LL	12.5 × 20	10.045	125
	47	KME160VB47RM12X25LL	12.5 × 25	7.053	165
	100	KME160VB101M16X25LL	16 × 25	3.315	270
220	KME160VB221M18X35LL	18 × 35.5	1.507	450	

\* The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

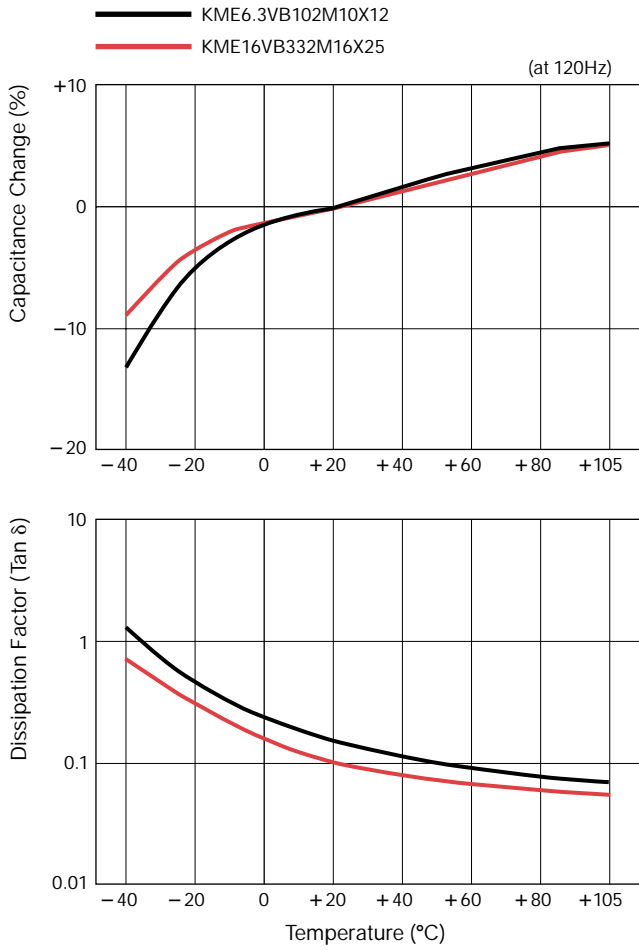
# KME Series

## Standard Voltage Ratings - VB/Radial Lead

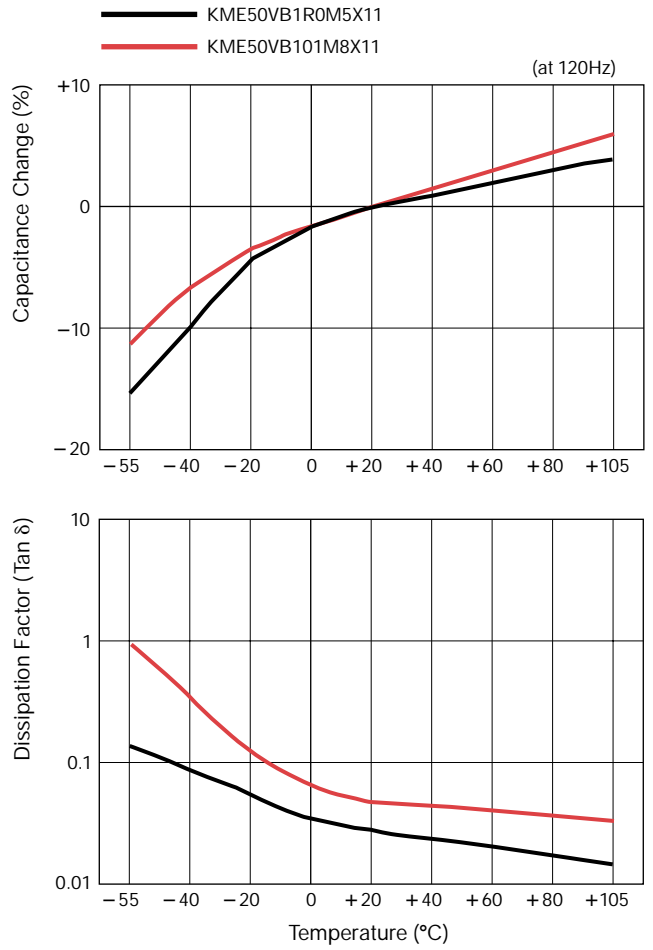
Rated Voltage (WVDC)	Capacitance (µF)	Catalog Part Number	Nominal Case Size* D×L (mm)	Maximum ESR (Ω) at +20°C, 120Hz	Maximum Ripple Current (mA rms) at +105°C, 120Hz
<b>200 Volts</b> 250 Volts Surge	0.47	KME200VBR47M6X11LL	6.3 × 11	705.319	9.0
	1.0	KME200VB1R0M6X11LL	6.3 × 11	331.5	12
	2.2	KME200VB2R2M6X11LL	6.3 × 11	150.682	19
	3.3	KME200VB3R3M8X11LL	8 × 11.5	100.455	26
	4.7	KME200VB4R7M10X12LL	10 × 12.5	70.532	36
	10	KME200VB10RM10X16LL	10 × 16	33.15	59
	22	KME200VB22RM10X20LL	10 × 20	15.068	95
	33	KME200VB33RM12X25LL	12.5 × 25	10.045	140
	47	KME200VB47RM12X25LL	12.5 × 25	7.053	165
	100	KME200VB101M16X31LL	16 × 31.5	3.315	285
	220	KME200VB221M18X40LL	18 × 40	1.507	470
<b>250 Volts</b> 300 Volts Surge	0.47	KME250VBR47M6X11LL	6.3 × 11	705.319	9.0
	1.0	KME250VB1R0M6X11LL	6.3 × 11	331.5	12
	2.2	KME250VB2R2M8X11LL	8 × 11.5	150.682	21
	3.3	KME250VB3R3M10X12LL	10 × 12.5	100.455	30
	4.7	KME250VB4R7M10X12LL	10 × 12.5	70.532	36
	10	KME250VB10RM10X20LL	10 × 20	33.15	64
	22	KME250VB22RM12X25LL	12.5 × 25	15.068	110
	33	KME250VB33RM12X25LL	12.5 × 25	10.045	140
	47	KME250VB47RM16X25LL	16 × 25	7.053	180
	100	KME250VB101M18X35LL	18 × 35.5	3.315	310
<b>350 Volts</b> 400 Volts Surge Not Solvent Proof	0.47	KME350VBR47M8X11LL	8 × 11.5	846.383	10
	1.0	KME350VB1R0M10X12LL	10 × 12.5	397.8	18
	2.2	KME350VB2R2M10X16LL	10 × 16	180.818	30
	3.3	KME350VB3R3M10X16LL	10 × 16	120.545	37
	4.7	KME350VB4R7M10X20LL	10 × 20	84.638	48
	10	KME350VB10RM12X20LL	12.5 × 20	39.78	79
	22	KME350VB22RM16X20LL	16 × 20	18.082	130
	33	KME350VB33RM16X25LL	16 × 25	12.055	175
	47	KME350VB47RM16X35LL	16 × 35.5	8.464	230
100	KME350VB101M18X40LL	18 × 40	3.978	330	
<b>400 Volts</b> 450 Volts Surge Not Solvent Proof	1.0	KME400VB1R0M10X12LL	10 × 12.5	397.8	18
	2.2	KME400VB2R2M10X16LL	10 × 16	180.818	30
	3.3	KME400VB3R3M10X20LL	10 × 20	120.545	40
	4.7	KME400VB4R7M10X25LL	10 × 25	84.638	52
	10	KME400VB10RM12X20LL	12.5 × 20	39.78	79
	22	KME400VB22RM16X25LL	16 × 25	18.082	145
	33	KME400VB33RM16X31LL	16 × 31.5	12.055	185
47	KME400VB47RM18X31LL	18 × 31.5	8.464	230	

\*The case sizes in table are with no sleeve, refer to diagram for case sizes with sleeve.

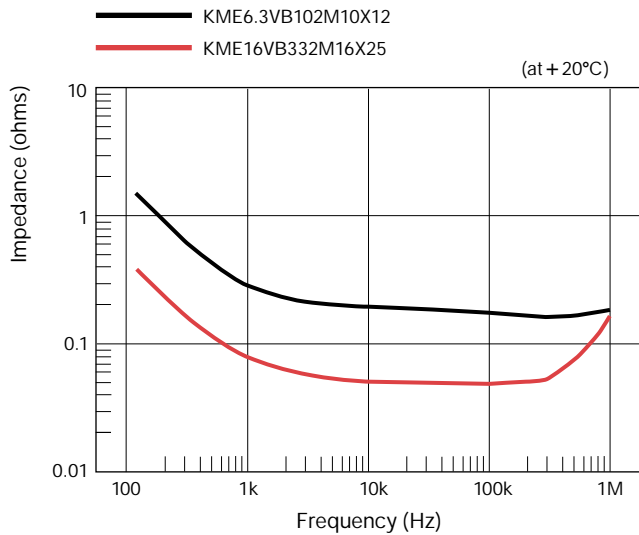
## Temperature Characteristics



## Temperature Characteristics



## Impedance - Frequency Characteristics



## Impedance - Frequency Characteristics

