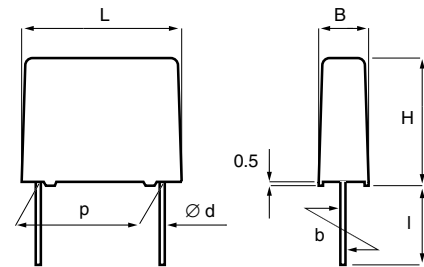


- Metallized polyester
- According to CECC 30401-042, IEC 60384-2, DIN 44122

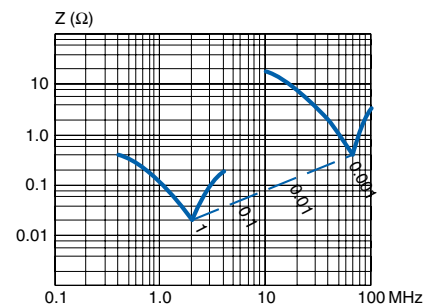


TYPICAL APPLICATIONS	CONSTRUCTION
Bypassing, signal coupling. General purpose for highest reliability.	Metallized polyester film capacitor. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.

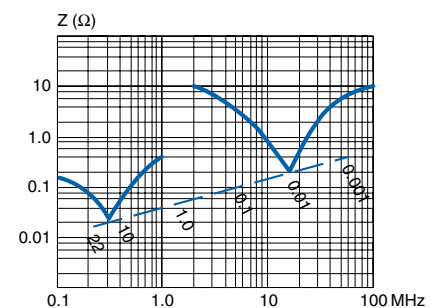


TECHNICAL DATA							
Rated voltage $U_R$ , VDC	50	63	100	250	400	630	1000
Rated voltage $U_R$ , VAC	30	40	63	160	200	220	250
Capacitance, $\mu\text{F}$	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	-10.0	-82	-82	-39	-18	-6.8	-4.7
Capacitance tolerance	$\pm 20\%$ , $\pm 10\%$ standard, $\pm 5\%$ .						
Category temperature range	-55 ... +100°C						
Voltage derating	Above +85°C DC and AC voltage derating is 1.25%/°C.						
Rated temperature	+85°C						
Climatic category	IEC 60068-1, 55/100/56 DIN 40040, FME -55 ... +100°C (+125°C) Average relative humidity $\leq 75\%$ RH = 95% for 30 days per year. RH = 85% for further days limited by average value per year, occasional slight condensation permitted.						
Test voltage	1.6 x $U_R$ VDC for 2s						
Capacitance drift	Max. 2% after a 2 year storage period at a temperature of +10 ... +40°C and a relative humidity of 40...60%.						
Reliability	Operational life > 200 000 h. Failure rate < 3 FIT, T = +40°C, U = 0.5 x $U_R$ . Failure criteria according to DIN 44122.						
Maximum pulse steepness:	dU/dt according to article table. For peak to peak voltages lower than rated voltage ( $U_{pp} < U_R$ ), the specified dU/dt can be multiplied by the factor $U_R/U_{pp}$ .						
Temperature coefficient	+400 ( $\pm 200$ ) ppm/°C at 1 kHz						
Self inductance	Approximately 6 nH/cm for the total length of capacitor winding and the leads.						

p	d	std l	max l	b
5.0 ± 0.4	0.5	4 <sup>+1</sup>	20	± 0.4
7.5 ± 0.4	0.6	4 <sup>+1</sup>	20	± 0.4
10.0 ± 0.4	0.6	4 <sup>+1</sup>	30	± 0.4
15.0 ± 0.4	0.8	4 <sup>+1</sup>	30	± 0.4
22.5 ± 0.4	0.8	4 <sup>+1</sup>	30	± 0.4
27.5 ± 0.4	0.8	4 <sup>+1</sup>	30	± 0.4
37.5 ± 0.5	1.0	4 <sup>+1</sup>	30	± 0.7



Resonance frequencies  
MMK 5



Resonance frequencies  
MMK7.5 ... 37.5

ENVIRONMENTAL TEST DATA		
Damp heat test	Test conditions: Test criteria:	T = +40°C, RH = 93%, t = 56 days. $\Delta C/C \leq \pm 5\%$ , $\Delta \tan \delta \leq 0.005$ (1kHz), IR after test 0.5 x IR min.
Endurance test	Test conditions: Test criteria:	T = +100°C, U = 1.25 x (0.8 x $U_R$ ), t = 2000 h. $\Delta C/C \leq \pm 5\%$ , $\Delta \tan \delta \leq 0.005$ (1kHz) $\Delta \tan \delta \leq 0.010$ (100kHz) IR after test 0.5 x IR min.

## TECHNICAL DATA

### Dissipation factor $\tan\delta$

Maximum values at +23°C

$C \leq 0.1 \mu\text{F}$     $0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$     $C > 1.0 \mu\text{F}$

Series	Frequency	$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$C > 1.0 \mu\text{F}$
MMK5	1 kHz	0.8%	0.8%	0.8%
	10 kHz	1.2%	1.2%	1.5%
	100 kHz	2.5%	3.0%	
MMK7.5 ... 37.5	1 kHz	0.8%	0.8%	1.0%
	10 kHz	1.5%	1.5%	
	100 kHz	3.0%		

### Insulation resistance

Minimum values between terminals.

Measured at +20°C, according to IEC 60384-2.

$C \leq 0.33 \mu\text{F}$     $C > 0.33 \mu\text{F}$

$U_R \leq 100\text{V}$	$U_R > 100\text{V}$
15000 MΩ   5000 s	30000 MΩ   10000 s

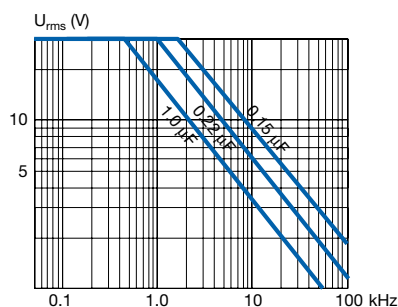
## ORDERING INFORMATION

See article table and pages 10 to 14 for options and article code construction.

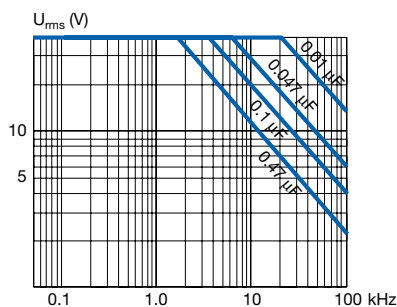
## MARKING

- Capacitance
- Tolerance code
- Rated voltage
- Capacitor family code MMK
- Manufacturing date code

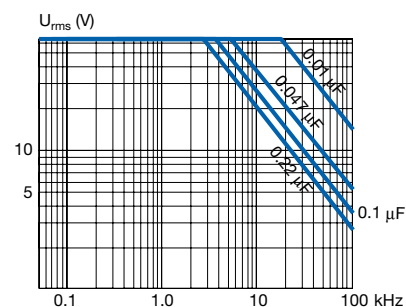
## RATED AC VOLTAGE VS. FREQUENCY



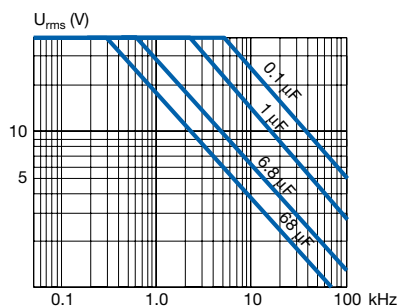
MMK5 50/30



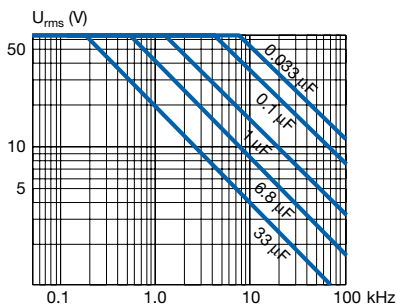
MMK5 63/40



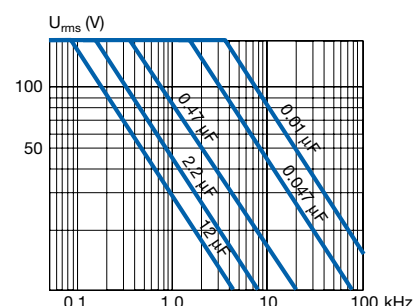
MMK5 100/63



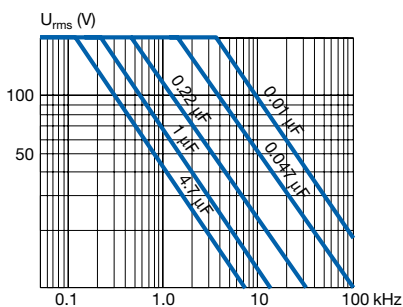
MMK7.5 ... 37.5 63/40



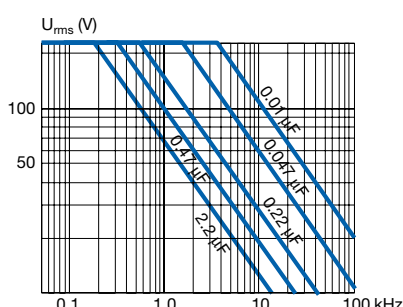
MMK7.5 ... 37.5 100/63



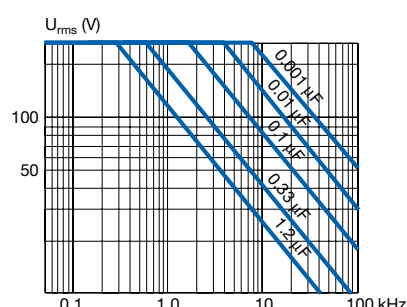
MMK7.5 ... 37.5 250/160



MMK7.5 ... 37.5 400/200



MMK7.5 ... 37.5 630/220



MMK7.5 ... 37.5 1000/250









## ARTICLE TABLE

Capaci- Box Max dimen- Max  
tance code sions in mm dU/dt  
μF B H L V/μs Article code

Capaci- Box Max dimen- Max  
tance code sions in mm dU/dt  
μF B H L V/μs Article code

### 100 VDC/63 VAC

### 100 VDC/63 VAC

#### LEAD SPACING 7.5 MM

#### LEAD SPACING 10 MM

0.0068	K00	2.5	6.0	10.0	20	MMK7.5	682K100K00L4	BULK
0.0082	K00	2.5	6.0	10.0	20	MMK7.5	822K100K00L4	BULK
0.010	K00	2.5	6.0	10.0	20	MMK7.5	103K100K00L4	BULK
0.012	K00	2.5	6.0	10.0	20	MMK7.5	123K100K00L4	BULK
0.015	K00	2.5	6.0	10.0	20	MMK7.5	153K100K00L4	BULK
0.018	K00	2.5	6.0	10.0	20	MMK7.5	183K100K00L4	BULK
0.022	K00	2.5	6.0	10.0	20	MMK7.5	223K100K00L4	BULK
0.027	K00	2.5	6.0	10.0	20	MMK7.5	273K100K00L4	BULK
0.033	K00	2.5	6.0	10.0	20	MMK7.5	333K100K00L4	BULK
0.039	K00	2.5	6.0	10.0	20	MMK7.5	393K100K00L4	BULK
0.047	K00	2.5	6.0	10.0	20	MMK7.5	473K100K00L4	BULK
0.056	K00	2.5	6.0	10.0	20	MMK7.5	563K100K00L4	BULK
0.068	K00	2.5	6.0	10.0	20	MMK7.5	683K100K00L4	BULK
0.082	K00	2.5	6.0	10.0	20	MMK7.5	823K100K00L4	BULK
0.10	K00	2.5	6.0	10.0	20	MMK7.5	104K100K00L4	BULK
0.12	K01	4.0	8.0	10.0	20	MMK7.5	124K100K01L4	BULK
0.15	K01	4.0	8.0	10.0	20	MMK7.5	154K100K01L4	BULK
0.18	K01	4.0	8.0	10.0	20	MMK7.5	184K100K01L4	BULK
0.22	K01	4.0	8.0	10.0	20	MMK7.5	224K100K01L4	BULK
0.27	K01	4.0	8.0	10.0	20	MMK7.5	274K100K01L4	BULK
0.33	K03	5.0	11.0	10.0	20	MMK7.5	334K100K03L4	BULK
0.39	K03	5.0	11.0	10.0	20	MMK7.5	394K100K03L4	BULK
0.47	K03	5.0	11.0	10.0	20	MMK7.5	474K100K03L4	BULK
0.56	K03	5.0	11.0	10.0	20	MMK7.5	564K100K03L4	BULK
0.68	K03	5.0	11.0	10.0	20	MMK7.5	684K100K03L4	BULK
0.82	K04	6.0	12.0	10.5	20	MMK7.5	824K100K04L4	BULK
1.0	K04	6.0	12.0	10.5	20	MMK7.5	105K100K04L4	BULK

0.39	A01	4.0	9.0	13.0	12	MMK10	394K100A01L4	BULK
0.47	A01	4.0	9.0	13.0	12	MMK10	474K100A01L4	BULK
0.56	A02	4.5	10.5	13.0	12	MMK10	564K100A02L4	BULK
0.68	A02	4.5	10.5	13.0	12	MMK10	684K100A02L4	BULK
0.82	A02	4.5	10.5	13.0	12	MMK10	824K100A02L4	BULK
1.0	A04	6.0	12.0	13.0	12	MMK10	105K100A04L4	BULK

#### LEAD SPACING 15 MM

0.27	B04	5.5	10.5	18.0	8	MMK15	274K100B04L4	BULK
0.33	B04	5.5	10.5	18.0	8	MMK15	334K100B04L4	BULK
0.39	B04	5.5	10.5	18.0	8	MMK15	394K100B04L4	BULK
0.47	B04	5.5	10.5	18.0	8	MMK15	474K100B04L4	BULK
0.56	B04	5.5	10.5	18.0	8	MMK15	564K100B04L4	BULK
0.68	B04	5.5	10.5	18.0	8	MMK15	684K100B04L4	BULK
0.82	B04	5.5	10.5	18.0	8	MMK15	824K100B04L4	BULK
1.0	B04	5.5	10.5	18.0	8	MMK15	105K100B04L4	BULK
1.2	B05	5.5	12.5	18.0	8	MMK15	125K100B05L4	BULK
1.5	B10	6.5	12.5	18.0	8	MMK15	155K100B10L4	BULK
1.8	B06	7.5	14.5	18.0	8	MMK15	185K100B06L4	BULK
2.2	B06	7.5	14.5	18.0	8	MMK15	225K100B06L4	BULK
2.7	B12	8.0	15.0	18.0	8	MMK15	275K100B12L4	BULK
3.3	B11	8.5	16.0	18.0	8	MMK15	335K100B11L4	BULK
3.9	B14	9.5	17.5	18.0	8	MMK15	395K100B14L4	BULK

#### LEAD SPACING 22.5 MM

1.2	D13	6.5	14.5	26.0	5	MMK22.5	125K100D13L4	TRAY
1.5	D13	6.5	14.5	26.0	5	MMK22.5	155K100D13L4	TRAY
1.8	D13	6.5	14.5	26.0	5	MMK22.5	185K100D13L4	TRAY
2.0	D13	6.5	14.5	26.0	5	MMK22.5	205K100D13L4	TRAY
2.2	D13	6.5	14.5	26.0	5	MMK22.5	225K100D13L4	TRAY
2.7	D13	6.5	14.5	26.0	5	MMK22.5	275K100D13L4	TRAY
3.3	D17	7.0	16.5	26.0	5	MMK22.5	335K100D17L4	TRAY
3.9	D14	8.0	16.0	26.0	5	MMK22.5	395K100D14L4	TRAY
4.7	D15	9.0	18.5	26.0	5	MMK22.5	475K100D15L4	TRAY
5.6	D15	9.0	18.5	26.0	5	MMK22.5	565K100D15L4	TRAY
6.8	D18	10.5	19.0	26.0	5	MMK22.5	685K100D18L4	TRAY
8.2	D16	11.0	21.5	26.0	5	MMK22.5	825K100D16L4	TRAY
10.0	D20	13.5	23.0	26.0	5	MMK22.5	106K100D20L4	TRAY
12.0	D19	15.5	24.5	26.0	5	MMK22.5	126K100D19L4	TRAY
15.0	D19	15.5	24.5	26.0	5	MMK22.5	156K100D19L4	TRAY

#### LEAD SPACING 27.5 MM

3.9	F11	10.5	20.5	31.5	3	MMK27.5	395K100F11L4	TRAY
4.7	F11	10.5	20.5	31.5	3	MMK27.5	475K100F11L4	TRAY
5.6	F11	10.5	20.5	31.5	3	MMK27.5	565K100F11L4	TRAY
6.8	F11	10.5	20.5	31.5	3	MMK27.5	685K100F11L4	TRAY
8.2	F11	10.5	20.5	31.5	3	MMK27.5	825K100F11L4	TRAY
10	F12	11.5	22.5	31.5	3	MMK27.5	106K100F12L4	TRAY
10	F17	21.0	12.5	31.5	3	MMK27.5	106K100F17L4	TRAY
12	F12	11.5	22.5	31.5	3	MMK27.5	126K100F12L4	TRAY
15	F13	14.5	24.5	31.5	3	MMK27.5	156K100F13L4	TRAY
18	F14	17.5	28.0	31.5	3	MMK27.5	186K100F14L4	TRAY
22	F14	17.5	28.0	31.5	3	MMK27.5	226K100F14L4	TRAY
22	F19	27.5	16.0	31.5	3	MMK27.5	226K100F19L4	TRAY
27	F15	19.0	29.0	31.5	3	MMK27.5	276K100F15L4	TRAY
27	F18	31.0	19.0	31.5	3	MMK27.5	276K100F18L4	TRAY
33	F16	21.0	30.0	31.5	3	MMK27.5	336K100F16L4	TRAY

#### LEAD SPACING 10 MM

0.0010	A01	4.0	9.0	13.0	12	MMK10	102K100A01L4	BULK
0.0012	A01	4.0	9.0	13.0	12	MMK10	122K100A01L4	BULK
0.0015	A01	4.0	9.0	13.0	12	MMK10	152K100A01L4	BULK
0.0018	A01	4.0	9.0	13.0	12	MMK10	182K100A01L4	BULK
0.0022	A01	4.0	9.0	13.0	12	MMK10	222K100A01L4	BULK
0.0027	A01	4.0	9.0	13.0	12	MMK10	272K100A01L4	BULK
0.0033	A01	4.0	9.0	13.0	12	MMK10	332K100A01L4	BULK
0.0039	A01	4.0	9.0	13.0	12	MMK10	392K100A01L4	BULK
0.0047	A01	4.0	9.0	13.0	12	MMK10	472K100A01L4	BULK
0.0056	A01	4.0	9.0	13.0	12	MMK10	562K100A01L4	BULK
0.0068	A01	4.0	9.0	13.0	12	MMK10	682K100A01L4	BULK
0.0078	A01	4.0	9.0	13.0	12	MMK10	782K100A01L4	BULK
0.0082	A01	4.0	9.0	13.0	12	MMK10	822K100A01L4	BULK
0.010	A01	4.0	9.0	13.0	12	MMK10	103K100A01L4	BULK
0.012	A01	4.0	9.0	13.0	12	MMK10	123K100A01L4	BULK
0.015	A01	4.0	9.0	13.0	12	MMK10	153K100A01L4	BULK
0.018	A01	4.0	9.0	13.0	12	MMK10	183K100A01L4	BULK
0.022	A01	4.0	9.0	13.0	12	MMK10	223K100A01L4	BULK
0.027	A01	4.0	9.0	13.0	12	MMK10	273K100A01L4	BULK
0.033	A01	4.0	9.0	13.0	12	MMK10	333K100A01L4	BULK
0.039	A01	4.0	9.0	13.0	12	MMK10	393K100A01L4	BULK
0.047	A01	4.0	9.0	13.0	12	MMK10	473K100A01L4	BULK
0.056	A01	4.0	9.0	13.0	12	MMK10	563K100A01L4	BULK
0.068	A01	4.0	9.0	13.0	12	MMK10	683K100A01L4	BULK
0.082	A01	4.0	9.0	13.0	12	MMK10	823K100A01L4	BULK
0.10	A01	4.0	9.0	13.0	12	MMK10	104K100A01L4	BULK
0.12	A01	4.0	9.0	13.0	12	MMK10	124K100A01L4	BULK
0.15	A01	4.0	9.0	13.0	12	MMK10	154K100A01L4	BULK
0.18	A01	4.0	9.0	13.0	12	MMK10	184K100A01L4	BULK
0.22	A01	4.0	9.0	13.0	12	MMK10	224K100A01L4	BULK
0.27	A01	4.0	9.0	13.0	12	MMK10	274K100A01L4	BULK
0.33	A01	4.0	9.0	13.0	12	MMK10	334K100A01L4	BULK

## ARTICLE TABLE

Capacitance Box Max dimensions in mm Max dU/dt  
 µF code B H L V/µs Article code

Capacitance Box Max dimensions in mm Max dU/dt  
 µF code B H L V/µs Article code

## 100 VDC/63 VAC

## 250 VDC/160 VAC

## LEAD SPACING 37.5 MM

## LEAD SPACING 7.5 MM

12	R05	13.0	24.0	41.0	2	MMK37.5	126K100R05L4	TRAY
15	R05	13.0	24.0	41.0	2	MMK37.5	156K100R05L4	TRAY
18	R05	13.0	24.0	41.0	2	MMK37.5	186K100R05L4	TRAY
22	R04	15.0	26.0	41.0	2	MMK37.5	226K100R04L4	TRAY
27	R04	15.0	26.0	41.0	2	MMK37.5	276K100R04L4	TRAY
33	R02	16.5	32.0	41.0	2	MMK37.5	336K100R02L4	TRAY
39	R03	19.0	36.0	41.0	2	MMK37.5	396K100R03L4	TRAY
47	R03	19.0	36.0	41.0	2	MMK37.5	476K100R03L4	TRAY
56	R06	21.0	38.0	41.0	2	MMK37.5	566K100R06L4	TRAY
68	R08	28.0	43.0	41.0	2	MMK37.5	686K100R08L4	TRAY
82	R08	28.0	43.0	41.0	2	MMK37.5	826K100R08L4	TRAY
100	R08	28.0	43.0	41.0	2	MMK37.5	107K100R08L4	TRAY

0.012	K00	2.5	6.0	10.0	30	MMK7.5	123K250K00L4	BULK
0.015	K00	2.5	6.0	10.0	30	MMK7.5	153K250K00L4	BULK
0.018	K00	2.5	6.0	10.0	30	MMK7.5	183K250K00L4	BULK
0.022	K00	2.5	6.0	10.0	30	MMK7.5	223K250K00L4	BULK
0.027	K00	2.5	6.0	10.0	30	MMK7.5	273K250K00L4	BULK
0.033	K00	2.5	6.0	10.0	30	MMK7.5	333K250K00L4	BULK
0.039	K01	4.0	8.0	10.0	30	MMK7.5	393K250K01L4	BULK
0.047	K01	4.0	8.0	10.0	30	MMK7.5	473K250K01L4	BULK
0.056	K01	4.0	8.0	10.0	30	MMK7.5	563K250K01L4	BULK
0.068	K01	4.0	8.0	10.0	30	MMK7.5	683K250K01L4	BULK
0.082	K01	4.0	8.0	10.0	30	MMK7.5	823K250K01L4	BULK
0.10	K01	4.0	8.0	10.0	30	MMK7.5	104K250K01L4	BULK
0.12	K03	5.0	11.0	10.0	30	MMK7.5	124K250K03L4	BULK
0.15	K03	5.0	11.0	10.0	30	MMK7.5	154K250K03L4	BULK
0.18	K03	5.0	11.0	10.0	30	MMK7.5	184K250K03L4	BULK
0.22	K03	5.0	11.0	10.0	30	MMK7.5	224K250K03L4	BULK
0.27	K04	6.0	12.0	10.5	30	MMK7.5	274K250K04L4	BULK
0.33	K04	6.0	12.0	10.5	30	MMK7.5	334K250K04L4	BULK

## 250 VDC/160 VAC

## LEAD SPACING 5 MM

## LEAD SPACING 10 MM

0.0010	J01	2.5	6.5	7.2	40	MMK5	102K250J01L4	BULK
0.0012	J01	2.5	6.5	7.2	40	MMK5	122K250J01L4	BULK
0.0015	J01	2.5	6.5	7.2	40	MMK5	152K250J01L4	BULK
0.0018	J01	2.5	6.5	7.2	40	MMK5	182K250J01L4	BULK
0.0022	J01	2.5	6.5	7.2	40	MMK5	222K250J01L4	BULK
0.0027	J01	2.5	6.5	7.2	40	MMK5	272K250J01L4	BULK
0.0033	J01	2.5	6.5	7.2	40	MMK5	332K250J01L4	BULK
0.0039	J01	2.5	6.5	7.2	40	MMK5	392K250J01L4	BULK
0.0047	J01	2.5	6.5	7.2	40	MMK5	472K250J01L4	BULK
0.0056	J01	2.5	6.5	7.2	40	MMK5	562K250J01L4	BULK
0.0068	J01	2.5	6.5	7.2	40	MMK5	682K250J01L4	BULK
0.0082	J01	2.5	6.5	7.2	40	MMK5	822K250J01L4	BULK
0.010	J01	2.5	6.5	7.2	40	MMK5	103K250J01L4	BULK
0.012	J01	2.5	6.5	7.2	40	MMK5	123K250J01L4	BULK
0.015	J01	2.5	6.5	7.2	40	MMK5	153K250J01L4	BULK
0.018	J01	2.5	6.5	7.2	40	MMK5	183K250J01L4	BULK
0.022	J01	2.5	6.5	7.2	40	MMK5	223K250J01L4	BULK
0.027	J02	3.5	8.0	7.2	40	MMK5	273K250J02L4	BULK
0.033	J02	3.5	8.0	7.2	40	MMK5	333K250J02L4	BULK
0.039	J02	3.5	8.0	7.2	40	MMK5	393K250J02L4	BULK
0.047	J02	3.5	8.0	7.2	40	MMK5	473K250J02L4	BULK
0.056	J02	3.5	8.0	7.2	40	MMK5	563K250J02L4	BULK
0.068	J02	3.5	8.0	7.2	40	MMK5	683K250J02L4	BULK
0.082	J03	4.5	9.0	7.2	40	MMK5	823K250J03L4	BULK
0.10	J03	4.5	9.0	7.2	40	MMK5	104K250J03L4	BULK
0.12	J04	5.0	10.0	7.2	40	MMK5	124K250J04L4	BULK
0.15	J04	5.0	10.0	7.2	40	MMK5	154K250J04L4	BULK
0.18	J05	6.0	11.0	7.2	40	MMK5	184K250J05L4	BULK
0.22	J05	6.0	11.0	7.2	40	MMK5	224K250J05L4	BULK

0.0010	A01	4.0	9.0	13.0	20	MMK10	102K250A01L4	BULK
0.0012	A01	4.0	9.0	13.0	20	MMK10	122K250A01L4	BULK
0.0015	A01	4.0	9.0	13.0	20	MMK10	152K250A01L4	BULK
0.0018	A01	4.0	9.0	13.0	20	MMK10	182K250A01L4	BULK
0.0022	A01	4.0	9.0	13.0	20	MMK10	222K250A01L4	BULK
0.0027	A01	4.0	9.0	13.0	20	MMK10	272K250A01L4	BULK
0.0033	A01	4.0	9.0	13.0	20	MMK10	332K250A01L4	BULK
0.0039	A01	4.0	9.0	13.0	20	MMK10	392K250A01L4	BULK
0.0047	A01	4.0	9.0	13.0	20	MMK10	472K250A01L4	BULK
0.0056	A01	4.0	9.0	13.0	20	MMK10	562K250A01L4	BULK
0.0068	A01	4.0	9.0	13.0	20	MMK10	682K250A01L4	BULK
0.0082	A01	4.0	9.0	13.0	20	MMK10	822K250A01L4	BULK
0.010	A01	4.0	9.0	13.0	20	MMK10	103K250A01L4	BULK
0.012	A01	4.0	9.0	13.0	20	MMK10	123K250A01L4	BULK
0.015	A01	4.0	9.0	13.0	20	MMK10	153K250A01L4	BULK
0.018	A01	4.0	9.0	13.0	20	MMK10	183K250A01L4	BULK
0.022	A01	4.0	9.0	13.0	20	MMK10	223K250A01L4	BULK
0.027	A01	4.0	9.0	13.0	20	MMK10	273K250A01L4	BULK
0.033	A01	4.0	9.0	13.0	20	MMK10	333K250A01L4	BULK
0.039	A01	4.0	9.0	13.0	20	MMK10	393K250A01L4	BULK
0.047	A01	4.0	9.0	13.0	20	MMK10	473K250A01L4	BULK
0.056	A01	4.0	9.0	13.0	20	MMK10	563K250A01L4	BULK
0.068	A01	4.0	9.0	13.0	20	MMK10	683K250A01L4	BULK
0.082	A01	4.0	9.0	13.0	20	MMK10	823K250A01L4	BULK
0.10	A01	4.0	9.0	13.0	20	MMK10	104K250A01L4	BULK
0.12	A01	4.0	9.0	13.0	20	MMK10	124K250A01L4	BULK
0.15	A01	4.0	9.0	13.0	20	MMK10	154K250A01L4	BULK
0.18	A01	4.0	9.0	13.0	20	MMK10	184K250A01L4	BULK
0.22	A02	4.5	10.5	13.0	20	MMK10	224K250A02L4	BULK
0.27	A03	5.0	11.0	13.0	20	MMK10	274K250A03L4	BULK
0.33	A04	6.0	12.0	13.0	20	MMK10	334K250A04L4	BULK
0.39	A04	6.0	12.0	13.0	20	MMK10	394K250A04L4	BULK

## LEAD SPACING 7.5 MM

## LEAD SPACING 15 MM

0.0010	K00	2.5	6.0	10.0	30	MMK7.5	102K250K00L4	BULK
0.0012	K00	2.5	6.0	10.0	30	MMK7.5	122K250K00L4	BULK
0.0015	K00	2.5	6.0	10.0	30	MMK7.5	152K250K00L4	BULK
0.0018	K00	2.5	6.0	10.0	30	MMK7.5	182K250K00L4	BULK
0.0022	K00	2.5	6.0	10.0	30	MMK7.5	222K250K00L4	BULK
0.0027	K00	2.5	6.0	10.0	30	MMK7.5	272K250K00L4	BULK
0.0033	K00	2.5	6.0	10.0	30	MMK7.5	332K250K00L4	BULK
0.0039	K00	2.5	6.0	10.0	30	MMK7.5	392K250K00L4	BULK
0.0047	K00	2.5	6.0	10.0	30	MMK7.5	472K250K00L4	BULK
0.0056	K00	2.5	6.0	10.0	30	MMK7.5	562K250K00L4	BULK
0.0068	K00	2.5	6.0	10.0	30	MMK7.5	682K250K00L4	BULK
0.0082	K00	2.5	6.0	10.0	30	MMK7.5	822K250K00L4	BULK
0.010	K00	2.5	6.0	10.0	30	MMK7.5	103K250K00L4	BULK

0.082	B04	5.5	10.5	18.0	12	MMK15	823K250B04L4	BULK
0.10	B04	5.5	10.5	18.0	12	MMK15	104K250B04L4	BULK
0.12	B04	5.5	10.5	18.0	12	MMK15	124K250B04L4	BULK
0.15	B04	5.5	10.5	18.0	12	MMK15	154K250B04L4	BULK
0.18	B04	5.5	10.5	18.0	12	MMK15	184K250B04L4	BULK
0.22	B04	5.5	10.5	18.0	12	MMK15	224K250B04L4	BULK
0.27	B04	5.5	10.5	18.0	12	MMK15	274K250B04L4	BULK

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## ARTICLE TABLE

Capacitance µF	Box code	Max dimensions in mm			Max dU/dt V/µs	Article code		Capacitance µF	Box code	Max dimensions in mm			Max dU/dt V/µs	Article code
		B	H	L						B	H	L		
<b>250 VDC/160 VA</b>							<b>400 VDC/200 VAC</b>							
<b>LEAD SPACING 15 MM</b>							<b>LEAD SPACING 5 MM</b>							
0.33	B04	5.5	10.5	18.0	12	MMK15 334K250B04L4 BULK	0.0010	J01	2.5	6.5	7.2	50	MMK5 102K400J01L4 BULK	
0.39	B04	5.5	10.5	18.0	12	MMK15 394K250B04L4 BULK	0.0012	J01	2.5	6.5	7.2	50	MMK5 122K400J01L4 BULK	
0.47	B05	5.5	12.5	18.0	12	MMK15 474K250B05L4 BULK	0.0015	J01	2.5	6.5	7.2	50	MMK5 152K400J01L4 BULK	
0.56	B10	6.5	12.5	18.0	12	MMK15 564K250B10L4 BULK	0.0018	J01	2.5	6.5	7.2	50	MMK5 182K400J01L4 BULK	
0.68	B10	6.5	12.5	18.0	12	MMK15 684K250B10L4 BULK	0.0022	J01	2.5	6.5	7.2	50	MMK5 222K400J01L4 BULK	
0.82	B06	7.5	14.5	18.0	12	MMK15 824K250B06L4 BULK	0.0027	J01	2.5	6.5	7.2	50	MMK5 272K400J01L4 BULK	
1.0	B06	7.5	14.5	18.0	12	MMK15 105K250B06L4 BULK	0.0033	J01	2.5	6.5	7.2	50	MMK5 332K400J01L4 BULK	
1.2	B12	8.0	15.0	18.0	12	MMK15 125K250B12L4 BULK	0.0039	J01	2.5	6.5	7.2	50	MMK5 392K400J01L4 BULK	
1.5	B14	9.5	17.5	18.0	12	MMK15 155K250B14L4 BULK	0.0047	J01	2.5	6.5	7.2	50	MMK5 472K400J01L4 BULK	
1.8	B14	9.5	17.5	18.0	12	MMK15 185K250B14L4 BULK	0.0056	J01	2.5	6.5	7.2	50	MMK5 562K400J01L4 BULK	
<b>LEAD SPACING 22.5 MM</b>							<b>LEAD SPACING 7.5 MM</b>							
0.47	D13	6.5	14.5	26.0	8	MMK22.5 474K250D13L4 TRAY	0.0068	J01	2.5	6.5	7.2	50	MMK5 682K400J01L4 BULK	
0.56	D13	6.5	14.5	26.0	8	MMK22.5 564K250D13L4 TRAY	0.0082	J01	2.5	6.5	7.2	50	MMK5 822K400J01L4 BULK	
0.68	D13	6.5	14.5	26.0	8	MMK22.5 684K250D13L4 TRAY	0.010	J01	2.5	6.5	7.2	50	MMK5 103K400J01L4 BULK	
0.82	D13	6.5	14.5	26.0	8	MMK22.5 824K250D13L4 TRAY	0.012	J01	2.5	6.5	7.2	50	MMK5 123K400J01L4 BULK	
1.0	D13	6.5	14.5	26.0	8	MMK22.5 105K250D13L4 TRAY	0.015	J01	2.5	6.5	7.2	50	MMK5 153K400J01L4 BULK	
1.2	D17	7.0	16.5	26.0	8	MMK22.5 125K250D17L4 TRAY	0.018	J02	3.5	8.0	7.2	50	MMK5 183K400J02L4 BULK	
1.5	D14	8.0	16.0	26.0	8	MMK22.5 155K250D14L4 TRAY	0.022	J02	3.5	8.0	7.2	50	MMK5 223K400J02L4 BULK	
1.8	D15	9.0	18.5	26.0	8	MMK22.5 185K250D15L4 TRAY	0.027	J03	4.5	9.0	7.2	50	MMK5 273K400J03L4 BULK	
2.0	D15	9.0	18.5	26.0	8	MMK22.5 205K250D15L4 TRAY	0.033	J03	4.5	9.0	7.2	50	MMK5 333K400J03L4 BULK	
2.2	D15	9.0	18.5	26.0	8	MMK22.5 225K250D15L4 TRAY	0.039	J03	4.5	9.0	7.2	50	MMK5 393K400J03L4 BULK	
2.7	D18	10.5	19.0	26.0	8	MMK22.5 275K250D18L4 TRAY	0.047	J03	4.5	9.0	7.2	50	MMK5 473K400J03L4 BULK	
3.3	D16	11.0	21.5	26.0	8	MMK22.5 335K250D16L4 TRAY	0.056	J05	6.0	11.0	7.2	50	MMK5 563K400J05L4 BULK	
3.9	D20	13.5	23.0	26.0	8	MMK22.5 395K250D20L4 TRAY	0.068	J05	6.0	11.0	7.2	50	MMK5 683K400J05L4 BULK	
4.7	D19	15.5	24.5	26.0	8	MMK22.5 475K250D19L4 TRAY	0.082	J06	7.2	13.0	7.2	50	MMK5 823K400J06L4 BULK	
5.6	D19	15.5	24.5	26.0	8	MMK22.5 565K250D19L4 TRAY	0.10	J06	7.2	13.0	7.2	50	MMK5 104K400J06L4 BULK	
<b>LEAD SPACING 27.5 MM</b>							<b>LEAD SPACING 10 MM</b>							
1.5	F11	10.5	20.5	31.5	5	MMK27.5 155K250F11L4 TRAY	0.0010	K00	2.5	6.0	10.0	40	MMK7.5 102K400K00L4 BULK	
1.8	F11	10.5	20.5	31.5	5	MMK27.5 185K250F11L4 TRAY	0.0012	K00	2.5	6.0	10.0	40	MMK7.5 122K400K00L4 BULK	
2.0	F11	10.5	20.5	31.5	5	MMK27.5 205K250F11L4 TRAY	0.0015	K00	2.5	6.0	10.0	40	MMK7.5 152K400K00L4 BULK	
2.2	F11	10.5	20.5	31.5	5	MMK27.5 225K250F11L4 TRAY	0.0018	K00	2.5	6.0	10.0	40	MMK7.5 182K400K00L4 BULK	
2.5	F11	10.5	20.5	31.5	5	MMK27.5 255K250F11L4 TRAY	0.0022	K00	2.5	6.0	10.0	40	MMK7.5 222K400K00L4 BULK	
2.7	F11	10.5	20.5	31.5	5	MMK27.5 275K250F11L4 TRAY	0.0027	K00	2.5	6.0	10.0	40	MMK7.5 272K400K00L4 BULK	
3.3	F11	10.5	20.5	31.5	5	MMK27.5 335K250F11L4 TRAY	0.0033	K00	2.5	6.0	10.0	40	MMK7.5 332K400K00L4 BULK	
3.3	F17	21.0	12.5	31.5	5	MMK27.5 335K250F17L4 TRAY	0.0039	K00	2.5	6.0	10.0	40	MMK7.5 392K400K00L4 BULK	
3.9	F12	11.5	22.5	31.5	5	MMK27.5 395K250F12L4 TRAY	0.0047	K00	2.5	6.0	10.0	40	MMK7.5 472K400K00L4 BULK	
4.7	F03	13.5	23.0	31.5	5	MMK27.5 475K250F03L4 TRAY	0.0056	K00	2.5	6.0	10.0	40	MMK7.5 562K400K00L4 BULK	
5.6	F13	14.5	24.5	31.5	5	MMK27.5 565K250F13L4 TRAY	0.0068	K00	2.5	6.0	10.0	40	MMK7.5 682K400K00L4 BULK	
6.8	F14	17.5	28.0	31.5	5	MMK27.5 685K250F14L4 TRAY	0.0082	K00	2.5	6.0	10.0	40	MMK7.5 822K400K00L4 BULK	
8.2	F14	17.5	28.0	31.5	5	MMK27.5 825K250F14L4 TRAY	0.010	K00	2.5	6.0	10.0	40	MMK7.5 103K400K00L4 BULK	
8.2	F19	27.5	16.0	31.5	5	MMK27.5 825K250F19L4 TRAY	0.012	K00	2.5	6.0	10.0	40	MMK7.5 123K400K00L4 BULK	
10	F16	21.0	30.0	31.5	5	MMK27.5 106K250F16L4 TRAY	0.015	K00	2.5	6.0	10.0	40	MMK7.5 153K400K00L4 BULK	
10	F18	31.0	19.0	31.5	5	MMK27.5 106K250F18L4 TRAY	0.018	K01	4.0	8.0	10.0	40	MMK7.5 183K400K01L4 BULK	
<b>LEAD SPACING 37.5 MM</b>							<b>LEAD SPACING 10 MM</b>							
4.7	R05	13.0	24.0	41.0	3	MMK37.5 475K250R05L4 TRAY	0.022	K01	4.0	8.0	10.0	40	MMK7.5 223K400K01L4 BULK	
5.6	R05	13.0	24.0	41.0	3	MMK37.5 565K250R05L4 TRAY	0.027	K01	4.0	8.0	10.0	40	MMK7.5 273K400K01L4 BULK	
6.8	R05	13.0	24.0	41.0	3	MMK37.5 685K250R05L4 TRAY	0.033	K01	4.0	8.0	10.0	40	MMK7.5 333K400K01L4 BULK	
8.2	R04	15.0	26.0	41.0	3	MMK37.5 825K250R04L4 TRAY	0.039	K01	4.0	8.0	10.0	40	MMK7.5 393K400K01L4 BULK	
10	R04	15.0	26.0	41.0	3	MMK37.5 106K250R04L4 TRAY	0.047	K03	5.0	11.0	10.0	40	MMK7.5 473K400K03L4 BULK	
12	R02	16.5	32.0	41.0	3	MMK37.5 126K250R02L4 TRAY	0.056	K03	5.0	11.0	10.0	40	MMK7.5 563K400K03L4 BULK	
15	R02	16.5	32.0	41.0	3	MMK37.5 156K250R02L4 TRAY	0.068	K03	5.0	11.0	10.0	40	MMK7.5 683K400K03L4 BULK	
18	R03	19.0	36.0	41.0	3	MMK37.5 186K250R03L4 TRAY	0.082	K03	5.0	11.0	10.0	40	MMK7.5 823K400K03L4 BULK	
22	R06	21.0	38.0	41.0	3	MMK37.5 226K250R06L4 TRAY	0.10	K03	5.0	11.0	10.0	40	MMK7.5 104K400K03L4 BULK	
27	R08	28.0	43.0	41.0	3	MMK37.5 276K250R08L4 TRAY	0.12	K04	6.0	12.0	10.5	40	MMK7.5 124K400K04L4 BULK	
33	R08	28.0	43.0	41.0	3	MMK37.5 336K250R08L4 TRAY	0.15	K04	6.0	12.0	10.5	40	MMK7.5 154K400K04L4 BULK	
39	R08	28.0	43.0	41.0	3	MMK37.5 396K250R08L4 TRAY	<b>LEAD SPACING 10 MM</b>							
							0.0010	A01	4.0	9.0	13.0	30	MMK10 102K400A01L4 BULK	
							0.0012	A01	4.0	9.0	13.0	30	MMK10 122K400A01L4 BULK	
							0.0015	A01	4.0	9.0	13.0	30	MMK10 152K400A01L4 BULK	

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Tel: 44-1236-434455

Färjestaden, Sweden  
Tel: 46-485-563934

Espoo, Finland  
Tel: 358-9-5406-5000

## Asia

### Northeast Asia

Hong Kong  
Tel: 852-2305-1168

Shenzhen, China  
Tel: 86-755-2518-1306

Beijing, China  
Tel: 86-10-5829-1711

Shanghai, China  
Tel: 86-21-6447-0707

Taipei, Taiwan  
Tel: 886-2-27528585

### Southeast Asia

Singapore  
Tel: 65-6586-1900

Penang, Malaysia  
Tel: 60-4-6430200

Bangalore, India  
Tel: 91-806-53-76817

*Note: KEMET reserves the right to modify minor details of internal and external construction at any time in the interest of product improvement. KEMET does not assume any responsibility for infringement that might result from the use of KEMET Capacitors in potential circuit designs. KEMET is a registered trademark of KEMET Electronics Corporation.*



## Other KEMET Resources

Tools	
Resource	Location
Configure A Part: CapEdge	<a href="http://capacitoredge.kemet.com">http://capacitoredge.kemet.com</a>
SPICE & FIT Software	<a href="http://www.kemet.com/spice">http://www.kemet.com/spice</a>
Search Our FAQs: KnowledgeEdge	<a href="http://www.kemet.com/keask">http://www.kemet.com/keask</a>

Product Information	
Resource	Location
Products	<a href="http://www.kemet.com/products">http://www.kemet.com/products</a>
Technical Resources (Including Soldering Techniques)	<a href="http://www.kemet.com/technicalpapers">http://www.kemet.com/technicalpapers</a>
RoHS Statement	<a href="http://www.kemet.com/rohs">http://www.kemet.com/rohs</a>
Quality Documents	<a href="http://www.kemet.com/qualitydocuments">http://www.kemet.com/qualitydocuments</a>

Product Request	
Resource	Location
Sample Request	<a href="http://www.kemet.com/sample">http://www.kemet.com/sample</a>
Engineering Kit Request	<a href="http://www.kemet.com/kits">http://www.kemet.com/kits</a>

Contact	
Resource	Location
Website	<a href="http://www.kemet.com">www.kemet.com</a>
Contact Us	<a href="http://www.kemet.com/contact">http://www.kemet.com/contact</a>
Investor Relations	<a href="http://www.kemet.com/ir">http://www.kemet.com/ir</a>
Call Us	1-877-MyKEMET
Twitter	<a href="http://twitter.com/kemetcapacitors">http://twitter.com/kemetcapacitors</a>

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Although we design and manufacture our products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.