MMK

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

NEW OPTIMIZED SERIES IN SMALLER DIMENSIONS

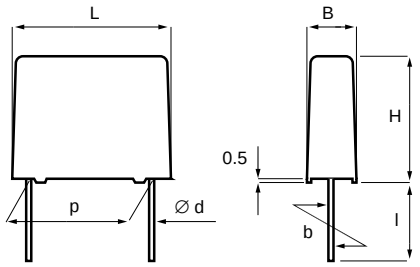
There are now many parts in the MMK series in smaller sizes than before. The capacitance range has also been extended. These parts are marked with * in the article table. The size codes for the bigger old parts are shown in the article table next to the new article code. Table with all size codes on page 18.

TYPICAL APPLICATIONS

Bypassing, signal coupling. General purpose for highest reliability.

CONSTRUCTION

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.



p	d	std l	max l	b
5.0 ± 0.4	0.5	4^{+1}	30	± 0.4
7.5 ± 0.4	0.6	4^{+1}	30	± 0.4
10.0 ± 0.4	0.6	4^{+1}	30	± 0.4
15.0 ± 0.4	0.8	4^{+1}	30	± 0.4
22.5 ± 0.4	0.8	4^{+1}	30	± 0.4
27.5 ± 0.4	0.8	4^{+1}	30	± 0.4
37.5 ± 0.5	1.0	4^{+1}	30	± 0.7

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, µF	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	–10.0	–82	–56	–22	–10	–4.7	–1.5

Capacitance tolerance
±20%, ±10% standard, ±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
Average relative humidity ≤ 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 (±200) ppm/°C at 1 kHz

Self inductance
Approximately 6 nH/cm for the total length of capacitor winding and the leads.

TECHNICAL DATA

Dissipation factor tanδ

Maximum values at +23°C

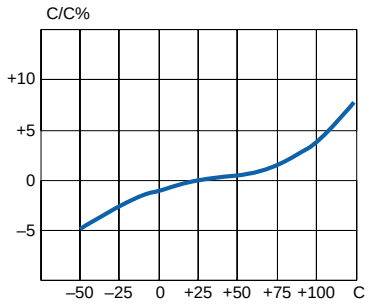
		C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF	C > 1.0 µF
MMK5	1 kHz	0.8%	0.8%	0.8%
	10 kHz	1.2%	1.2%	1.5%
	100 kHz	2.5%	3.0%	
MMK7.5 ... 37.5	1 kHz	0.8%	0.8%	1.0%
	10 kHz	1.5%	1.5%	
	100 kHz	3.0%		

Insulation resistance

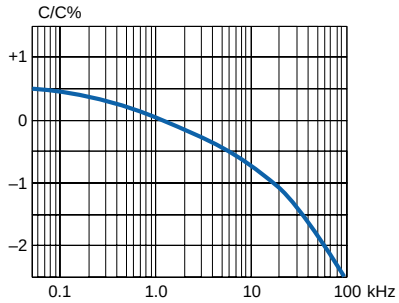
Minimum values between terminals.
Measured at +20°C, according to IEC 60384-2.

	C ≤ 0.33 µF	C > 0.33 µF
$U_R \leq 100V$	15000 MΩ	5000 s
$U_R > 100V$	30000 MΩ	10000 s

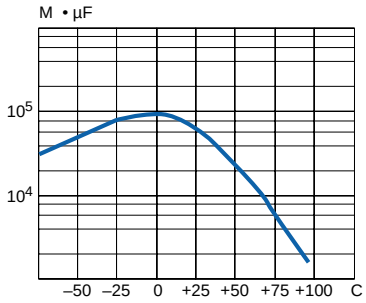
TYPICAL DATA



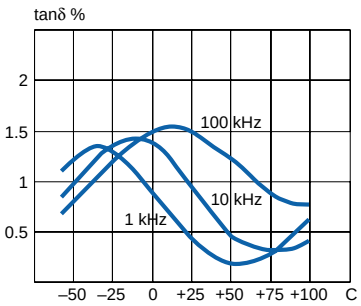
Capacitance vs. temperature (at 1 kHz)



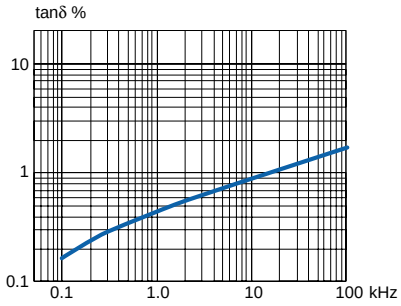
Capacitance vs. frequency (at +23°C)



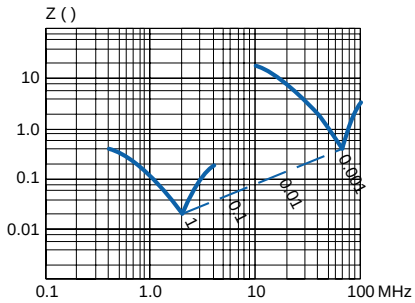
Insulation resistance vs. temperature



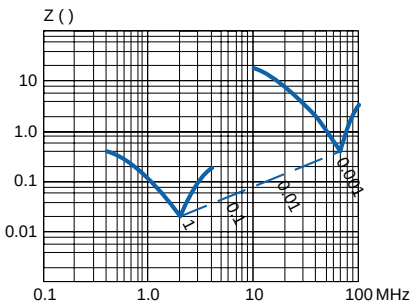
Dissipation factor vs. temperature



Dissipation factor vs. frequency (at +23°C)

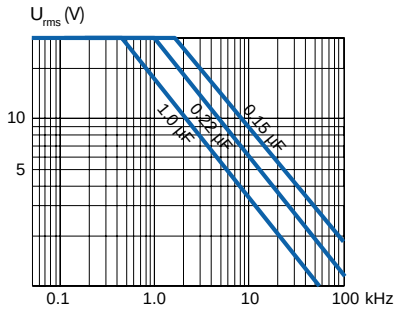


Resonance frequencies MMK 5

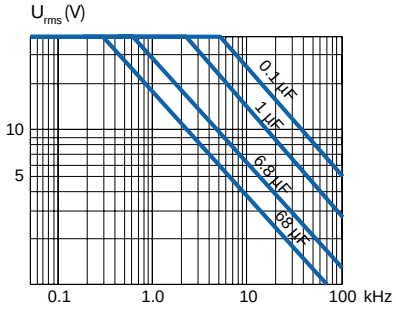


Resonance frequencies MMK7.5 ... 37.5

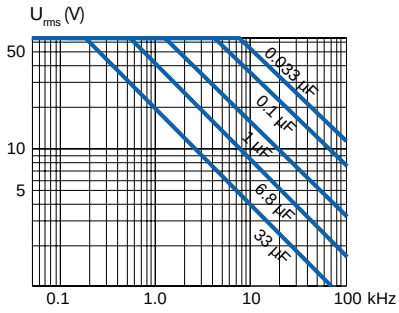
RATED AC VOLTAGE VS. FREQUENCY



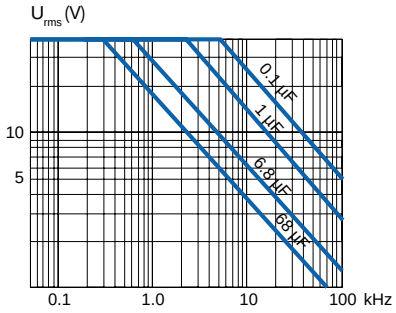
MMK5 **50/30**



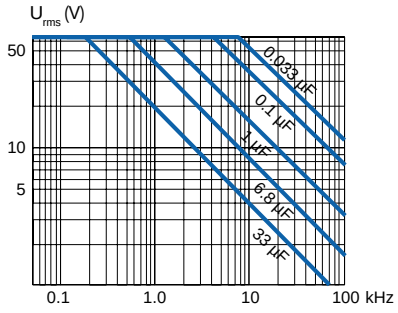
MMK5 **63/40**



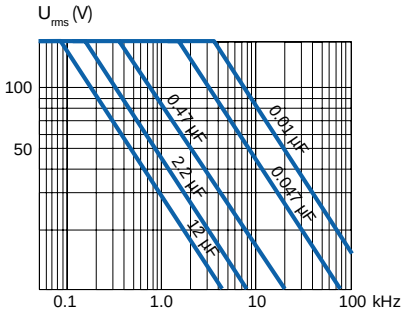
MMK5 **100/63**



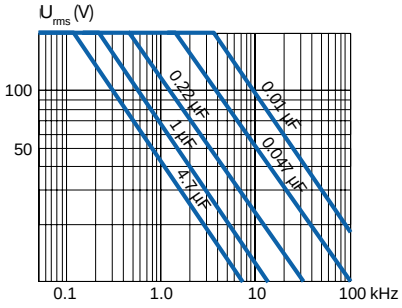
MMK7.5 ... 37.5 **63/40**



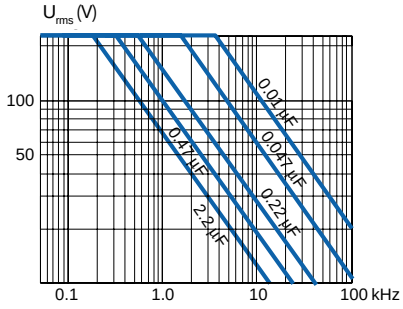
MMK7.5 ... 37.5 **100/63**



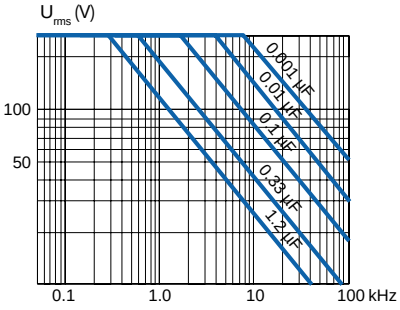
MMK7.5 ... 37.5 **250/160**



MMK7.5 ... 37.5 **400/200**



MMK7.5 ... 37.5 **630/220**



MMK7.5 ... 37.5 **1000/250**

ENVIRONMENTAL TEST DATA

Damp heat test	**Test conditions:**	T = +40°C, RH = 93%, t = 56 days.
	Test criteria:	Δ C/C ≤ ±5%, Δ tanδ ≤ 0.005 (1kHz), IR after test 0.5 x IR min.
Endurance test	**Test conditions:**	T = +100°C, U = 1.25 x (0.8 x U_R),
	Test criteria:	t = 2000 h. Δ C/C ≤ ±5%, Δ tanδ ≤ 0.005 (1kHz) Δ tanδ ≤ 0.010 (100kHz) IR after test 0.5 x IR min.

MARKING

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

ORDERING INFORMATION

See article table and pages 18 to 23 for options and article code construction.
The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
50 VDC/30 VAC											
LEAD SPACING 5 MM											
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 102K50J01L4 BULK	
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 122K50J01L4 BULK	
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 152K50J01L4 BULK	
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 182K50J01L4 BULK	
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 222K50J01L4 BULK	
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 272K50J01L4 BULK	
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 332K50J01L4 BULK	
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 392K50J01L4 BULK	
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 472K50J01L4 BULK	
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 562K50J01L4 BULK	
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 682K50J01L4 BULK	
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 822K50J01L4 BULK	
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 103K50J01L4 BULK	
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 123K50J01L4 BULK	
0.015	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 153K50J01L4 BULK	
0.018	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 183K50J01L4 BULK	
0.022	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 223K50J01L4 BULK	
0.027	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 273K50J01L4 BULK	
0.033	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 333K50J01L4 BULK	
0.039	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 393K50J01L4 BULK	
0.047	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 473K50J01L4 BULK	
0.056	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 563K50J01L4 BULK	
0.068	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 683K50J01L4 BULK	
0.082	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 823K50J01L4 BULK	
0.10	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 104K50J01L4 BULK	
0.12	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 124K50J01L4 BULK	
0.15	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 154K50J01L4 BULK	
0.18	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 184K50J01L4 BULK	
0.22	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 224K50J01L4 BULK	
0.27 *	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 274K50J01L4 BULK	J02
0.33 *	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 334K50J01L4 BULK	J02
0.39 *	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 394K50J01L4 BULK	J02
0.47 *	2.5	6.5	7.2	5.0	2000		2500	3000	12	MMK5 474K50J01L4 BULK	J02
0.56 *	3.5	8.0	7.2	5.0	2000		2000	2000	12	MMK5 564K50J02L4 BULK	J03
0.68 *	3.5	8.0	7.2	5.0	2000		2000	2000	12	MMK5 684K50J02L4 BULK	J03
0.82 *	3.5	8.0	7.2	5.0	2000		2000	2000	12	MMK5 824K50J02L4 BULK	J03
1.0 *	3.5	8.0	7.2	5.0	2000		2000	2000	12	MMK5 105K50J02L4 BULK	J03
1.2 *	4.5	9.0	7.2	5.0	1000		1500	1700	12	MMK5 125K50J03L4 BULK	J04
1.5 *	4.5	9.0	7.2	5.0	1000		1500	1700	12	MMK5 155K50J03L4 BULK	J04
1.8 *	5.0	10.0	7.2	5.0	1000		1300	1500	12	MMK5 185K50J04L4 BULK	J05
2.2 *	5.0	10.0	7.2	5.0	1000		1300	1500	12	MMK5 225K50J04L4 BULK	J05
2.7 *	6.0	11.0	7.2	5.0	1000		1000	1200	12	MMK5 275K50J05L4 BULK	J06
3.3 *	6.0	11.0	7.2	5.0	1000		1000	1200	12	MMK5 335K50J05L4 BULK	J06
3.9	7.2	13.0	7.2	5.0	1000		800		12	MMK5 395K50J06L4 BULK	
4.7	7.2	13.0	7.2	5.0	1000		800		12	MMK5 475K50J06L4 BULK	
LEAD SPACING 7.5 MM											
0.0010	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 102K50K00L4 BULK	
0.0012	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 122K50K00L4 BULK	
0.0015	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 152K50K00L4 BULK	
0.0018	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 182K50K00L4 BULK	
0.0022	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 222K50K00L4 BULK	
0.0027	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 272K50K00L4 BULK	
0.0033	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 332K50K00L4 BULK	
0.0039	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 392K50K00L4 BULK	
0.0047	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 472K50K00L4 BULK	
0.0056	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 562K50K00L4 BULK	
0.0068	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 682K50K00L4 BULK	
0.0082	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 822K50K00L4 BULK	

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
50 VDC/30 VAC											
LEAD SPACING 7.5 MM											
0.010	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 103K50K00L4 BULK	
0.012	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 123K50K00L4 BULK	
0.015	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 153K50K00L4 BULK	
0.018	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 183K50K00L4 BULK	
0.022	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 223K50K00L4 BULK	
0.027	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 273K50K00L4 BULK	
0.033	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 333K50K00L4 BULK	
0.039	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 393K50K00L4 BULK	
0.047	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 473K50K00L4 BULK	
0.056	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 563K50K00L4 BULK	
0.068	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 683K50K00L4 BULK	
0.082	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 823K50K00L4 BULK	
0.10	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 104K50K00L4 BULK	
0.12	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 124K50K00L4 BULK	
0.15	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 154K50K00L4 BULK	
0.18	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 184K50K00L4 BULK	
0.22 *	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 224K50K00L4 BULK	K01
0.27 *	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 274K50K00L4 BULK	K01
0.33 *	2.5	6.0	10.0	7.5	2000		2500	3000	5	MMK7,5 334K50K00L4 BULK	K01
0.39	4.0	8.0	10.5	7.5	1000		1700	1900	5	MMK7,5 394K50K01L4 BULK	
0.47	4.0	8.0	10.5	7.5	1000		1700	1900	5	MMK7,5 474K50K01L4 BULK	
0.56	4.0	8.0	10.5	7.5	1000		1700	1900	5	MMK7,5 564K50K01L4 BULK	
0.68	4.0	8.0	10.5	7.5	1000		1700	1900	5	MMK7,5 684K50K01L4 BULK	
0.82 *	4.0	8.0	10.5	7.5	1000		1700	1900	5	MMK7,5 824K50K01L4 BULK	K03
1.0 *	4.0	8.0	10.5	7.5	1000		1700	1900	5	MMK7,5 105K50K01L4 BULK	K03
1.2	5.0	11.0	10.5	7.5	1000		1300	1500	5	MMK7,5 125K50K03L4 BULK	
1.5	5.0	11.0	10.5	7.5	1000		1300	1500	5	MMK7,5 155K50K03L4 BULK	
1.8 *	5.0	11.0	10.5	7.5	1000		1300	1500	5	MMK7,5 185K50K03L4 BULK	K04
2.2	6.0	12.0	10.5	7.5	1000		1000	1200	5	MMK7,5 225K50K04L4 BULK	
2.7	6.0	12.0	10.5	7.5	1000		1000	1200	5	MMK7,5 275K50K04L4 BULK	
3.3	6.0	12.0	10.5	7.5	1000		1000	1200	5	MMK7,5 335K50K04L4 BULK	
LEAD SPACING 10 MM											
1.0 *	4.0	9.0	13.0	10.0	1000		900		4	MMK10 105K50A01L4 BULK	---
1.2 *	4.0	9.0	13.0	10.0	1000		900		4	MMK10 125K50A01L4 BULK	---
1.5 *	4.5	10.5	13.0	10.0	1000		800		4	MMK10 155K50A02L4 BULK	---
1.8 *	5.0	11.0	13.0	10.0	800		700		4	MMK10 185K50A03L4 BULK	---
2.2 *	5.0	11.0	13.0	10.0	800		700		4	MMK10 225K50A03L4 BULK	---
2.7 *	6.0	12.0	13.0	10.0	600		500		4	MMK10 275K50A04L4 BULK	---
LEAD SPACING 15 MM											
2.0 *	5.5	10.5	18.0	15.0	1000		600		3	MMK15 205K50B04L4 BULK	---
2.2 *	5.5	10.5	18.0	15.0	1000		600		3	MMK15 225K50B04L4 BULK	---
2.7 *	5.5	12.5	18.0	15.0	1000		600		3	MMK15 275K50B05L4 BULK	---
3.3 *	5.5	12.5	18.0	15.0	1000		600		3	MMK15 335K50B05L4 BULK	---
3.9 *	6.5	12.5	18.0	15.0	1000		500		3	MMK15 395K50B10L4 BULK	---
4.7 *	7.5	14.5	18.0	15.0	800		400		3	MMK15 475K50B06L4 BULK	---
5.6 *	7.5	14.5	18.0	15.0	800		400		3	MMK15 565K50B06L4 BULK	---
6.8 *	8.0	15.0	18.0	15.0	600		400		3	MMK15 685K50B12L4 BULK	---
8.2 *	8.5	16.0	18.0	15.0	600		400		3	MMK15 825K50B11L4 BULK	---
10.0 *	9.5	17.5	18.0	15.0	500		350		3	MMK15 106K50B14L4 BULK	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
63 VDC/40 VAC											
LEAD SPACING 5 MM											
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 102K63J01L4 BULK	
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 122K63J01L4 BULK	
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 152K63J01L4 BULK	
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 182K63J01L4 BULK	
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 222K63J01L4 BULK	
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 272K63J01L4 BULK	
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 332K63J01L4 BULK	
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 392K63J01L4 BULK	
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 472K63J01L4 BULK	
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 562K63J01L4 BULK	
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 682K63J01L4 BULK	
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 822K63J01L4 BULK	
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 103K63J01L4 BULK	
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 123K63J01L4 BULK	
0.015	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 153K63J01L4 BULK	
0.018	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 183K63J01L4 BULK	
0.022	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 223K63J01L4 BULK	
0.027	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 273K63J01L4 BULK	
0.033	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 333K63J01L4 BULK	
0.039	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 393K63J01L4 BULK	
0.047	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 473K63J01L4 BULK	
0.056	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 563K63J01L4 BULK	
0.068	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 683K63J01L4 BULK	
0.082	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 823K63J01L4 BULK	
0.10	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 104K63J01L4 BULK	
0.12	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 124K63J01L4 BULK	
0.15	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 154K63J01L4 BULK	
0.18 *	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 184K63J01L4 BULK	J02
0.22 *	2.5	6.5	7.2	5.0	2000		2500	3000	25	MMK5 224K63J01L4 BULK	J02
0.27	3.5	8.0	7.2	5.0	2000		2000	2000	25	MMK5 274K63J02L4 BULK	
0.33	3.5	8.0	7.2	5.0	2000		2000	2000	25	MMK5 334K63J02L4 BULK	
0.39 *	3.5	8.0	7.2	5.0	2000		2000	2000	25	MMK5 394K63J02L4 BULK	J03
0.47 *	3.5	8.0	7.2	5.0	2000		2000	2000	25	MMK5 474K63J02L4 BULK	J03
0.56 *	4.5	9.0	7.2	5.0	1000		1500	1700	25	MMK5 564K63J03L4 BULK	J04
0.68 *	4.5	9.0	7.2	5.0	1000		1500	1700	25	MMK5 684K63J03L4 BULK	J04
0.82 *	5.0	10.0	7.2	5.0	1000		1300	1500	25	MMK5 824K63J04L4 BULK	J05
1.0 *	5.0	10.0	7.2	5.0	1000		1300	1500	25	MMK5 105K63J04L4 BULK	J05
1.2 *	6.0	11.0	7.2	5.0	1000		1000	1200	25	MMK5 125K63J05L4 BULK	J06
1.5 *	6.0	11.0	7.2	5.0	1000		1000	1200	25	MMK5 155K63J05L4 BULK	J06
1.8	7.2	13.0	7.2	5.0	1000		800		25	MMK5 185K63J06L4 BULK	
2.2	7.2	13.0	7.2	5.0	1000		800		25	MMK5 225K63J06L4 BULK	
LEAD SPACING 7.5 MM											
0.0010	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 102K63K00L4 BULK	
0.0012	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 122K63K00L4 BULK	
0.0015	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 152K63K00L4 BULK	
0.0018	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 182K63K00L4 BULK	
0.0022	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 222K63K00L4 BULK	
0.0027	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 272K63K00L4 BULK	
0.0033	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 332K63K00L4 BULK	
0.0039	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 392K63K00L4 BULK	
0.0047	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 472K63K00L4 BULK	
0.0056	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 562K63K00L4 BULK	
0.0068	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 682K63K00L4 BULK	
0.0082	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 822K63K00L4 BULK	
0.010	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 103K63K00L4 BULK	
0.012	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 123K63K00L4 BULK	
0.015	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 153K63K00L4 BULK	
0.018	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 183K63K00L4 BULK	

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
63 VDC/40 VAC											
LEAD SPACING 7.5 MM											
0.022	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 223K63K00L4 BULK	
0.027	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 273K63K00L4 BULK	
0.033	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 333K63K00L4 BULK	
0.039	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 393K63K00L4 BULK	
0.047	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 473K63K00L4 BULK	
0.056	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 563K63K00L4 BULK	
0.068	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 683K63K00L4 BULK	
0.082	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 823K63K00L4 BULK	
0.10	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 104K63K00L4 BULK	
0.12	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 124K63K00L4 BULK	
0.15	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 154K63K00L4 BULK	
0.18 *	2.5	6.0	10.0	7.5	2000		2500	3000	10	MMK7,5 184K63K00L4 BULK	K01
0.22	4.0	8.0	10.5	7.5	1000		1700	1900	10	MMK7,5 224K63K01L4 BULK	
0.27	4.0	8.0	10.5	7.5	1000		1700	1900	10	MMK7,5 274K63K01L4 BULK	
0.33	4.0	8.0	10.5	7.5	1000		1700	1900	10	MMK7,5 334K63K01L4 BULK	
0.39 *	4.0	8.0	10.5	7.5	1000		1700	1900	10	MMK7,5 394K63K01L4 BULK	K03
0.47 *	4.0	8.0	10.5	7.5	1000		1700	1900	10	MMK7,5 474K63K01L4 BULK	K03
0.56	5.0	11.0	10.5	7.5	1000		1300	1500	10	MMK7,5 564K63K03L4 BULK	
0.68 *	5.0	11.0	10.5	7.5	1000		1300	1500	10	MMK7,5 684K63K03L4 BULK	K04
0.82 *	5.0	11.0	10.5	7.5	1000		1300	1500	10	MMK7,5 824K63K03L4 BULK	K04
1.0 *	5.0	11.0	10.5	7.5	1000		1300	1500	10	MMK7,5 105K63K03L4 BULK	K04
1.2	6.0	12.0	10.5	7.5	1000		1000	1200	10	MMK7,5 125K63K04L4 BULK	
1.5	6.0	12.0	10.5	7.5	1000		1000	1200	10	MMK7,5 155K63K04L4 BULK	
LEAD SPACING 10 MM											
0.0010	4.0	9.0	13.0	10.0	1000		900		8	MMK10 102K63A01L4 BULK	
0.0012	4.0	9.0	13.0	10.0	1000		900		8	MMK10 122K63A01L4 BULK	
0.0015	4.0	9.0	13.0	10.0	1000		900		8	MMK10 152K63A01L4 BULK	
0.0018	4.0	9.0	13.0	10.0	1000		900		8	MMK10 182K63A01L4 BULK	
0.0022	4.0	9.0	13.0	10.0	1000		900		8	MMK10 222K63A01L4 BULK	
0.0027	4.0	9.0	13.0	10.0	1000		900		8	MMK10 272K63A01L4 BULK	
0.0033	4.0	9.0	13.0	10.0	1000		900		8	MMK10 332K63A01L4 BULK	
0.0039	4.0	9.0	13.0	10.0	1000		900		8	MMK10 392K63A01L4 BULK	
0.0047	4.0	9.0	13.0	10.0	1000		900		8	MMK10 472K63A01L4 BULK	
0.0056	4.0	9.0	13.0	10.0	1000		900		8	MMK10 562K63A01L4 BULK	
0.0068	4.0	9.0	13.0	10.0	1000		900		8	MMK10 682K63A01L4 BULK	
0.0078	4.0	9.0	13.0	10.0	1000		900		8	MMK10 782K63A01L4 BULK	
0.0082	4.0	9.0	13.0	10.0	1000		900		8	MMK10 822K63A01L4 BULK	
0.010	4.0	9.0	13.0	10.0	1000		900		8	MMK10 103K63A01L4 BULK	
0.012	4.0	9.0	13.0	10.0	1000		900		8	MMK10 123K63A01L4 BULK	
0.015	4.0	9.0	13.0	10.0	1000		900		8	MMK10 153K63A01L4 BULK	
0.018	4.0	9.0	13.0	10.0	1000		900		8	MMK10 183K63A01L4 BULK	
0.022	4.0	9.0	13.0	10.0	1000		900		8	MMK10 223K63A01L4 BULK	
0.027	4.0	9.0	13.0	10.0	1000		900		8	MMK10 273K63A01L4 BULK	
0.033	4.0	9.0	13.0	10.0	1000		900		8	MMK10 333K63A01L4 BULK	
0.039	4.0	9.0	13.0	10.0	1000		900		8	MMK10 393K63A01L4 BULK	
0.047	4.0	9.0	13.0	10.0	1000		900		8	MMK10 473K63A01L4 BULK	
0.056	4.0	9.0	13.0	10.0	1000		900		8	MMK10 563K63A01L4 BULK	
0.068	4.0	9.0	13.0	10.0	1000		900		8	MMK10 683K63A01L4 BULK	
0.082	4.0	9.0	13.0	10.0	1000		900		8	MMK10 823K63A01L4 BULK	
0.10	4.0	9.0	13.0	10.0	1000		900		8	MMK10 104K63A01L4 BULK	
0.12	4.0	9.0	13.0	10.0	1000		900		8	MMK10 124K63A01L4 BULK	
0.15	4.0	9.0	13.0	10.0	1000		900		8	MMK10 154K63A01L4 BULK	
0.18	4.0	9.0	13.0	10.0	1000		900		8	MMK10 184K63A01L4 BULK	
0.22	4.0	9.0	13.0	10.0	1000		900		8	MMK10 224K63A01L4 BULK	
0.27	4.0	9.0	13.0	10.0	1000		900		8	MMK10 274K63A01L4 BULK	
0.33	4.0	9.0	13.0	10.0	1000		900		8	MMK10 334K63A01L4 BULK	
0.39	4.0	9.0	13.0	10.0	1000		900		8	MMK10 394K63A01L4 BULK	
0.47	4.0	9.0	13.0	10.0	1000		900		8	MMK10 474K63A01L4 BULK	

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
63 VDC/40 VAC											
LEAD SPACING 10 MM											
0.56 *	4.0	9.0	13.0	10.0	1000		900		8	MMK10 564K63A01L4 BULK	A03
0.68 *	4.0	9.0	13.0	10.0	1000		900		8	MMK10 684K63A01L4 BULK	A03
0.82 *	4.0	9.0	13.0	10.0	1000		900		8	MMK10 824K63A01L4 BULK	A03
1.0 *	4.5	10.5	13.0	10.0	1000		800		8	MMK10 105K63A02L4 BULK	A03
1.2 *	4.5	10.5	13.0	10.0	1000		800		8	MMK10 125K63A02L4 BULK	---
1.5 *	5.0	11.0	13.0	10.0	800		700		8	MMK10 155K63A03L4 BULK	---
1.8 *	6.0	12.0	13.0	10.0	600		500		8	MMK10 185K63A04L4 BULK	---
2.2 *	6.0	12.0	13.0	10.0	600		500		8	MMK10 225K63A04L4 BULK	---
LEAD SPACING 15 MM											
0.68	5.5	10.5	18.0	15.0	1000		600		5	MMK15 684K63B04L4 BULK	
0.82	5.5	10.5	18.0	15.0	1000		600		5	MMK15 824K63B04L4 BULK	
1.0	5.5	10.5	18.0	15.0	1000		600		5	MMK15 105K63B04L4 BULK	
1.2	5.5	10.5	18.0	15.0	1000		600		5	MMK15 125K63B04L4 BULK	
1.5 *	5.5	10.5	18.0	15.0	1000		600		5	MMK15 155K63B04L4 BULK	B05
1.8 *	5.5	10.5	18.0	15.0	1000		600		5	MMK15 185K63B04L4 BULK	B10
2.0 *	5.5	12.5	18.0	15.0	1000		600		5	MMK15 205K63B05L4 BULK	B10
2.2 *	5.5	12.5	18.0	15.0	1000		600		5	MMK15 225K63B05L4 BULK	B06
2.7 *	6.5	12.5	18.0	15.0	1000		500		5	MMK15 275K63B10L4 BULK	B06
3.3 *	6.5	12.5	18.0	15.0	1000		500		5	MMK15 335K63B10L4 BULK	B06
3.9 *	7.5	14.5	18.0	15.0	800		400		5	MMK15 395K63B06L4 BULK	B12
4.7 *	7.5	14.5	18.0	15.0	800		400		5	MMK15 475K63B06L4 BULK	---
5.6 *	8.5	16.0	18.0	15.0	600		400		5	MMK15 565K63B11L4 BULK	---
6.8 *	9.5	17.5	18.0	15.0	500		350		5	MMK15 685K63B14L4 BULK	---
LEAD SPACING 22.5 MM											
3.3	6.5	14.5	26.0	22.5		234			3	MMK22,5 335K63D13L4 TRAY	
3.9	6.5	14.5	26.0	22.5		234			3	MMK22,5 395K63D13L4 TRAY	
4.7 *	6.5	14.5	26.0	22.5		234			3	MMK22,5 475K63D13L4 TRAY	D17
5.6 *	7.0	16.5	26.0	22.5		216			3	MMK22,5 565K63D17L4 TRAY	D14
6.8 *	7.0	16.5	26.0	22.5		216			3	MMK22,5 685K63D17L4 TRAY	D15
8.2 *	8.0	16.0	26.0	22.5		186			3	MMK22,5 825K63D14L4 TRAY	D18
10 *	9.0	18.5	26.0	22.5		168			3	MMK22,5 106K63D15L4 TRAY	D18
12 *	10.5	19.0	26.0	22.5		264			3	MMK22,5 126K63D18L4 TRAY	D16
15 *	11.0	21.5	26.0	22.5		253			3	MMK22,5 156K63D16L4 TRAY	---
18 *	15.5	24.5	26.0	22.5		176			3	MMK22,5 186K63D19L4 TRAY	---
22 *	15.5	24.5	26.0	22.5		176			3	MMK22,5 226K63D19L4 TRAY	---
LEAD SPACING 27.5 MM											
8.2	10.5	20.5	31.5	27.5		216			2	MMK27,5 825K63F11L4 TRAY	
10	10.5	20.5	31.5	27.5		216			2	MMK27,5 106K63F11L4 TRAY	
12	10.5	20.5	31.5	27.5		216			2	MMK27,5 126K63F11L4 TRAY	
15	11.5	22.5	31.5	27.5		198			2	MMK27,5 156K63F12L4 TRAY	
18	11.5	22.5	31.5	27.5		198			2	MMK27,5 186K63F12L4 TRAY	
22	14.5	24.5	31.5	27.5		153			2	MMK27,5 226K63F13L4 TRAY	
27	17.5	28.0	31.5	27.5		126			2	MMK27,5 276K63F14L4 TRAY	
33	17.5	28.0	31.5	27.5		126			2	MMK27,5 336K63F14L4 TRAY	
LEAD SPACING 37.5 MM											
27	13.0	24.0	41.0	37.5		140			1	MMK37,5 276K63R05L4 TRAY	
33	15.0	26.0	41.0	37.5		119			1	MMK37,5 336K63R04L4 TRAY	
39	15.0	26.0	41.0	37.5		119			1	MMK37,5 396K63R04L4 TRAY	
47	16.5	32.0	41.0	37.5		105			1	MMK37,5 476K63R02L4 TRAY	
56	19.0	36.0	41.0	37.5		91			1	MMK37,5 566K63R03L4 TRAY	
68	19.0	36.0	41.0	37.5		91			1	MMK37,5 686K63R03L4 TRAY	
82	21.0	38.0	41.0	37.5		84			1	MMK37,5 826K63R06L4 TRAY	

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
100 VDC/63 VAC											
LEAD SPACING 5 MM											
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 102K100J01L4 BULK	
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 122K100J01L4 BULK	
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 152K100J01L4 BULK	
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 182K100J01L4 BULK	
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 222K100J01L4 BULK	
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 272K100J01L4 BULK	
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 332K100J01L4 BULK	
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 392K100J01L4 BULK	
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 472K100J01L4 BULK	
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 562K100J01L4 BULK	
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 682K100J01L4 BULK	
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 822K100J01L4 BULK	
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 103K100J01L4 BULK	
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 123K100J01L4 BULK	
0.015	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 153K100J01L4 BULK	
0.018	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 183K100J01L4 BULK	
0.022	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 223K100J01L4 BULK	
0.027	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 273K100J01L4 BULK	
0.033	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 333K100J01L4 BULK	
0.039	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 393K100J01L4 BULK	
0.047	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 473K100J01L4 BULK	
0.056	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 563K100J01L4 BULK	
0.068	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 683K100J01L4 BULK	
0.082 *	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 823K100J01L4 BULK	J02
0.10 *	2.5	6.5	7.2	5.0	2000		2500	3000	30	MMK5 104K100J01L4 BULK	J02
0.12	3.5	8.0	7.2	5.0	2000		2000	2000	30	MMK5 124K100J02L4 BULK	
0.15	3.5	8.0	7.2	5.0	2000		2000	2000	30	MMK5 154K100J02L4 BULK	
0.18 *	3.5	8.0	7.2	5.0	2000		2000	2000	30	MMK5 184K100J02L4 BULK	J03
0.22 *	3.5	8.0	7.2	5.0	2000		2000	2000	30	MMK5 224K100J02L4 BULK	J03
0.27 *	4.5	9.0	7.2	5.0	1000		1500	1700	30	MMK5 274K100J03L4 BULK	J04
0.33 *	4.5	9.0	7.2	5.0	1000		1500	1700	30	MMK5 334K100J03L4 BULK	J04
0.39 *	5.0	10.0	7.2	5.0	1000		1300	1500	30	MMK5 394K100J04L4 BULK	J05
0.47 *	5.0	10.0	7.2	5.0	1000		1300	1500	30	MMK5 474K100J04L4 BULK	J05
0.56 *	6.0	11.0	7.2	5.0	1000		1000	1200	30	MMK5 564K100J05L4 BULK	J06
0.68 *	6.0	11.0	7.2	5.0	1000		1000	1200	30	MMK5 684K100J05L4 BULK	J06
0.82	7.2	13.0	7.2	5.0	1000		800		30	MMK5 824K100J06L4 BULK	
1.0	7.2	13.0	7.2	5.0	1000		800		30	MMK5 105K100J06L4 BULK	
LEAD SPACING 7.5 MM											
0.0010	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 102K100K00L4 BULK	
0.0012	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 122K100K00L4 BULK	
0.0015	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 152K100K00L4 BULK	
0.0018	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 182K100K00L4 BULK	
0.0022	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 222K100K00L4 BULK	
0.0027	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 272K100K00L4 BULK	
0.0033	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 332K100K00L4 BULK	
0.0039	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 392K100K00L4 BULK	
0.0047	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 472K100K00L4 BULK	
0.0056	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 562K100K00L4 BULK	
0.0068	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 682K100K00L4 BULK	
0.0082	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 822K100K00L4 BULK	
0.010	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 103K100K00L4 BULK	
0.012	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 123K100K00L4 BULK	
0.015	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 153K100K00L4 BULK	
0.018	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 183K100K00L4 BULK	
0.022	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 223K100K00L4 BULK	
0.027	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 273K100K00L4 BULK	
0.033	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 333K100K00L4 BULK	

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
100 VDC/63 VAC											
LEAD SPACING 7.5 MM											
0.039 *	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 393K100K00L4 BULK	K01
0.047 *	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 473K100K00L4 BULK	K01
0.056 *	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 563K100K00L4 BULK	K01
0.068 *	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 683K100K00L4 BULK	K01
0.082 *	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 823K100K00L4 BULK	K01
0.10 *	2.5	6.0	10.0	7.5	2000		2500	3000	20	MMK7,5 104K100K00L4 BULK	K01
0.12	4.0	8.0	10.5	7.5	1000		1700	1900	20	MMK7,5 124K100K01L4 BULK	
0.15 *	4.0	8.0	10.5	7.5	1000		1700	1900	20	MMK7,5 154K100K01L4 BULK	K03
0.18 *	4.0	8.0	10.5	7.5	1000		1700	1900	20	MMK7,5 184K100K01L4 BULK	K03
0.22 *	4.0	8.0	10.5	7.5	1000		1700	1900	20	MMK7,5 224K100K01L4 BULK	K03
0.27 *	4.0	8.0	10.5	7.5	1000		1700	1900	20	MMK7,5 274K100K01L4 BULK	K03
0.33 *	5.0	11.0	10.5	7.5	1000		1300	1500	20	MMK7,5 334K100K03L4 BULK	K04
0.39 *	5.0	11.0	10.5	7.5	1000		1300	1500	20	MMK7,5 394K100K03L4 BULK	K04
0.47 *	5.0	11.0	10.5	7.5	1000		1300	1500	20	MMK7,5 474K100K03L4 BULK	K04
0.56 *	5.0	11.0	10.5	7.5	1000		1300	1500	20	MMK7,5 564K100K03L4 BULK	K04
0.68 *	5.0	11.0	10.5	7.5	1000		1300	1500	20	MMK7,5 684K100K03L4 BULK	K04
0.82 *	6.0	12.0	10.5	7.5	1000		1000	1200	20	MMK7,5 824K100K04L4 BULK	---
1.0 *	6.0	12.0	10.5	7.5	1000		1000	1200	20	MMK7,5 105K100K04L4 BULK	---
LEAD SPACING 10 MM											
0.0010	4.0	9.0	13.0	10.0	1000		900		12	MMK10 102K100A01L4 BULK	
0.0012	4.0	9.0	13.0	10.0	1000		900		12	MMK10 122K100A01L4 BULK	
0.0015	4.0	9.0	13.0	10.0	1000		900		12	MMK10 152K100A01L4 BULK	
0.0018	4.0	9.0	13.0	10.0	1000		900		12	MMK10 182K100A01L4 BULK	
0.0022	4.0	9.0	13.0	10.0	1000		900		12	MMK10 222K100A01L4 BULK	
0.0027	4.0	9.0	13.0	10.0	1000		900		12	MMK10 272K100A01L4 BULK	
0.0033	4.0	9.0	13.0	10.0	1000		900		12	MMK10 332K100A01L4 BULK	
0.0039	4.0	9.0	13.0	10.0	1000		900		12	MMK10 392K100A01L4 BULK	
0.0047	4.0	9.0	13.0	10.0	1000		900		12	MMK10 472K100A01L4 BULK	
0.0056	4.0	9.0	13.0	10.0	1000		900		12	MMK10 562K100A01L4 BULK	
0.0068	4.0	9.0	13.0	10.0	1000		900		12	MMK10 682K100A01L4 BULK	
0.0078	4.0	9.0	13.0	10.0	1000		900		12	MMK10 782K100A01L4 BULK	
0.0082	4.0	9.0	13.0	10.0	1000		900		12	MMK10 822K100A01L4 BULK	
0.010	4.0	9.0	13.0	10.0	1000		900		12	MMK10 103K100A01L4 BULK	
0.012	4.0	9.0	13.0	10.0	1000		900		12	MMK10 123K100A01L4 BULK	
0.015	4.0	9.0	13.0	10.0	1000		900		12	MMK10 153K100A01L4 BULK	
0.018	4.0	9.0	13.0	10.0	1000		900		12	MMK10 183K100A01L4 BULK	
0.022	4.0	9.0	13.0	10.0	1000		900		12	MMK10 223K100A01L4 BULK	
0.027	4.0	9.0	13.0	10.0	1000		900		12	MMK10 273K100A01L4 BULK	
0.033	4.0	9.0	13.0	10.0	1000		900		12	MMK10 333K100A01L4 BULK	
0.039	4.0	9.0	13.0	10.0	1000		900		12	MMK10 393K100A01L4 BULK	
0.047	4.0	9.0	13.0	10.0	1000		900		12	MMK10 473K100A01L4 BULK	
0.056	4.0	9.0	13.0	10.0	1000		900		12	MMK10 563K100A01L4 BULK	
0.068	4.0	9.0	13.0	10.0	1000		900		12	MMK10 683K100A01L4 BULK	
0.082	4.0	9.0	13.0	10.0	1000		900		12	MMK10 823K100A01L4 BULK	
0.10	4.0	9.0	13.0	10.0	1000		900		12	MMK10 104K100A01L4 BULK	
0.12	4.0	9.0	13.0	10.0	1000		900		12	MMK10 124K100A01L4 BULK	
0.15	4.0	9.0	13.0	10.0	1000		900		12	MMK10 154K100A01L4 BULK	
0.18	4.0	9.0	13.0	10.0	1000		900		12	MMK10 184K100A01L4 BULK	
0.22 *	4.0	9.0	13.0	10.0	1000		900		12	MMK10 224K100A01L4 BULK	A02
0.27 *	4.0	9.0	13.0	10.0	1000		900		12	MMK10 274K100A01L4 BULK	A03
0.33 *	4.0	9.0	13.0	10.0	1000		900		12	MMK10 334K100A01L4 BULK	A03
0.39 *	4.0	9.0	13.0	10.0	1000		900		12	MMK10 394K100A01L4 BULK	A03
0.47 *	4.0	9.0	13.0	10.0	1000		900		12	MMK10 474K100A01L4 BULK	A03
0.56 *	4.5	10.5	13.0	10.0	1000		800		12	MMK10 564K100A02L4 BULK	---
0.68 *	4.5	10.5	13.0	10.0	1000		800		12	MMK10 684K100A02L4 BULK	---
0.82 *	4.5	10.5	13.0	10.0	1000		800		12	MMK10 824K100A02L4 BULK	---
1.0 *	6.0	12.0	13.0	10.0	1000		800		12	MMK10 105K100A04L4 BULK	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
100 VDC/63 VAC											
LEAD SPACING 15 MM											
0.27	5.5	10.5	18.0	15.0	1000		600		8	MMK15 274K100B04L4 BULK	
0.33	5.5	10.5	18.0	15.0	1000		600		8	MMK15 334K100B04L4 BULK	
0.39	5.5	10.5	18.0	15.0	1000		600		8	MMK15 394K100B04L4 BULK	
0.47	5.5	10.5	18.0	15.0	1000		600		8	MMK15 474K100B04L4 BULK	
0.56	5.5	10.5	18.0	15.0	1000		600		8	MMK15 564K100B04L4 BULK	
0.68 *	5.5	10.5	18.0	15.0	1000		600		8	MMK15 684K100B04L4 BULK	B05
0.82 *	5.5	10.5	18.0	15.0	1000		600		8	MMK15 824K100B04L4 BULK	B10
1.0 *	5.5	10.5	18.0	15.0	1000		600		8	MMK15 105K100B04L4 BULK	B06
1.2 *	5.5	12.5	18.0	15.0	1000		600		8	MMK15 125K100B05L4 BULK	B06
1.5 *	6.5	12.5	18.0	15.0	1000		500		8	MMK15 155K100B10L4 BULK	B12
1.8 *	7.5	14.5	18.0	15.0	800		400		8	MMK15 185K100B06L4 BULK	B12
2.2 *	7.5	14.5	18.0	15.0	800		400		8	MMK15 225K100B06L4 BULK	B12
2.7 *	8.0	15.0	18.0	15.0	600		400		8	MMK15 275K100B12L4 BULK	---
3.3 *	8.5	16.0	18.0	15.0	600		400		8	MMK15 335K100B11L4 BULK	---
3.9 *	9.5	17.5	18.0	15.0	500		350		8	MMK15 395K100B14L4 BULK	---
LEAD SPACING 22.5 MM											
1.2	6.5	14.5	26.0	22.5		234			5	MMK22,5 125K100D13L4 TRAY	
1.5	6.5	14.5	26.0	22.5		234			5	MMK22,5 155K100D13L4 TRAY	
1.8	6.5	14.5	26.0	22.5		234			5	MMK22,5 185K100D13L4 TRAY	
2.0	6.5	14.5	26.0	22.5		234			5	MMK22,5 205K100D13L4 TRAY	
2.2 *	6.5	14.5	26.0	22.5		234			5	MMK22,5 225K100D13L4 TRAY	D17
2.7 *	6.5	14.5	26.0	22.5		234			5	MMK22,5 275K100D13L4 TRAY	D14
3.3 *	7.0	16.5	26.0	22.5		216			5	MMK22,5 335K100D17L4 TRAY	D15
3.9 *	8.0	16.0	26.0	22.5		186			5	MMK22,5 395K100D14L4 TRAY	D15
4.7 *	9.0	18.5	26.0	22.5		168			5	MMK22,5 475K100D15L4 TRAY	D18
5.6 *	9.0	18.5	26.0	22.5		168			5	MMK22,5 565K100D15L4 TRAY	D16
6.8 *	10.5	19.0	26.0	22.5		264			5	MMK22,5 685K100D18L4 TRAY	---
8.2 *	11.0	21.5	26.0	22.5		253			5	MMK22,5 825K100D16L4 TRAY	---
10.0 *	15.5	24.5	26.0	22.5		176			5	MMK22,5 106K100D19L4 TRAY	---
12.0 *	15.5	24.5	26.0	22.5		176			5	MMK22,5 126K100D19L4 TRAY	---
15.0 *	15.5	24.5	26.0	22.5		176			5	MMK22,5 156K100D19L4 TRAY	---
LEAD SPACING 27.5 MM											
3.9	10.5	20.5	31.5	27.5		216			3	MMK27,5 395K100F11L4 TRAY	
4.7	10.5	20.5	31.5	27.5		216			3	MMK27,5 475K100F11L4 TRAY	
5.6	10.5	20.5	31.5	27.5		216			3	MMK27,5 565K100F11L4 TRAY	
6.8	10.5	20.5	31.5	27.5		216			3	MMK27,5 685K100F11L4 TRAY	
8.2 *	10.5	20.5	31.5	27.5		216			3	MMK27,5 825K100F11L4 TRAY	F12
10 *	11.5	22.5	31.5	27.5		198			3	MMK27,5 106K100F12L4 TRAY	F13
12 *	11.5	22.5	31.5	27.5		198			3	MMK27,5 126K100F12L4 TRAY	F14
15 *	14.5	24.5	31.5	27.5		153			3	MMK27,5 156K100F13L4 TRAY	F14
18 *	17.5	28.0	31.5	27.5		126			3	MMK27,5 186K100F14L4 TRAY	---
22 *	17.5	28.0	31.5	27.5		126			3	MMK27,5 226K100F14L4 TRAY	---
27 *	19.0	29.0	31.5	27.5		117			3	MMK27,5 276K100F15L4 TRAY	---
33 *	21.0	30.0	31.5	27.5		108			3	MMK27,5 336K100F16L4 TRAY	---
LEAD SPACING 37.5 MM											
12	13.0	24.0	41.0	37.5		140			2	MMK37,5 126K100R05L4 TRAY	
15 *	13.0	24.0	41.0	37.5		140			2	MMK37,5 156K100R05L4 TRAY	R04
18 *	13.0	24.0	41.0	37.5		140			2	MMK37,5 186K100R05L4 TRAY	R04
22 *	15.0	26.0	41.0	37.5		119			2	MMK37,5 226K100R04L4 TRAY	R02
27 *	15.0	26.0	41.0	37.5		119			2	MMK37,5 276K100R04L4 TRAY	R03
33 *	16.5	32.0	41.0	37.5		105			2	MMK37,5 336K100R02L4 TRAY	R03
39 *	19.0	36.0	41.0	37.5		91			2	MMK37,5 396K100R03L4 TRAY	---
47 *	19.0	36.0	41.0	37.5		91			2	MMK37,5 476K100R03L4 TRAY	---
56 *	21.0	38.0	41.0	37.5		84			2	MMK37,5 566K100R06L4 TRAY	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
250 VDC/160 VAC											
LEAD SPACING 5 MM											
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 102K250J01L4 BULK	
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 122K250J01L4 BULK	
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 152K250J01L4 BULK	
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 182K250J01L4 BULK	
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 222K250J01L4 BULK	
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 272K250J01L4 BULK	
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 332K250J01L4 BULK	
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 392K250J01L4 BULK	
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 472K250J01L4 BULK	
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 562K250J01L4 BULK	
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 682K250J01L4 BULK	
0.0082	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 822K250J01L4 BULK	
0.010	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 103K250J01L4 BULK	
0.012	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 123K250J01L4 BULK	
0.015	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 153K250J01L4 BULK	
0.018 *	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 183K250J01L4 BULK	J02
0.022 *	2.5	6.5	7.2	5.0	2000		2500	3000	40	MMK5 223K250J01L4 BULK	J02
0.027	3.5	8.0	7.2	5.0	2000		2000	2000	40	MMK5 273K250J02L4 BULK	
0.033	3.5	8.0	7.2	5.0	2000		2000	2000	40	MMK5 333K250J02L4 BULK	
0.039	3.5	8.0	7.2	5.0	2000		2000	2000	40	MMK5 393K250J02L4 BULK	
0.047 *	3.5	8.0	7.2	5.0	2000		2000	2000	40	MMK5 473K250J02L4 BULK	J03
0.056 *	3.5	8.0	7.2	5.0	2000		2000	2000	40	MMK5 563K250J02L4 BULK	J03
0.068 *	3.5	8.0	7.2	5.0	2000		2000	2000	40	MMK5 683K250J02L4 BULK	J03
0.082 *	4.5	9.0	7.2	5.0	1000		1500	1700	40	MMK5 823K250J03L4 BULK	J04
0.10 *	4.5	9.0	7.2	5.0	1000		1500	1700	40	MMK5 104K250J03L4 BULK	J04
0.12 *	5.0	10.0	7.2	5.0	1000		1300	1500	40	MMK5 124K250J04L4 BULK	J05
0.15 *	5.0	10.0	7.2	5.0	1000		1300	1500	40	MMK5 154K250J04L4 BULK	J05
0.18 *	6.0	11.0	7.2	5.0	1000		1000	1200	40	MMK5 184K250J05L4 BULK	J06
0.22 *	6.0	11.0	7.2	5.0	1000		1000	1200	40	MMK5 224K250J05L4 BULK	J06
LEAD SPACING 7.5 MM											
0.0010	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 102K250K00L4 BULK	
0.0012	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 122K250K00L4 BULK	
0.0015	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 152K250K00L4 BULK	
0.0018	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 182K250K00L4 BULK	
0.0022	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 222K250K00L4 BULK	
0.0027	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 272K250K00L4 BULK	
0.0033	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 332K250K00L4 BULK	
0.0039	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 392K250K00L4 BULK	
0.0047	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 472K250K00L4 BULK	
0.0056	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 562K250K00L4 BULK	
0.0068	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 682K250K00L4 BULK	
0.0082	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 822K250K00L4 BULK	
0.010	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 103K250K00L4 BULK	
0.012	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 123K250K00L4 BULK	
0.015	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 153K250K00L4 BULK	
0.018 *	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 183K250K00L4 BULK	K01
0.022 *	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 223K250K00L4 BULK	K01
0.027 *	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 273K250K00L4 BULK	K01
0.033 *	2.5	6.0	10.0	7.5	2000		2500	3000	30	MMK7,5 333K250K00L4 BULK	K01
0.039	4.0	8.0	10.5	7.5	1000		1700	1900	30	MMK7,5 393K250K01L4 BULK	
0.047	4.0	8.0	10.5	7.5	1000		1700	1900	30	MMK7,5 473K250K01L4 BULK	
0.056 *	4.0	8.0	10.5	7.5	1000		1700	1900	30	MMK7,5 563K250K01L4 BULK	K03
0.068 *	4.0	8.0	10.5	7.5	1000		1700	1900	30	MMK7,5 683K250K01L4 BULK	K03
0.082 *	4.0	8.0	10.5	7.5	1000		1700	1900	30	MMK7,5 823K250K01L4 BULK	K03
0.10 *	4.0	8.0	10.5	7.5	1000		1700	1900	30	MMK7,5 104K250K01L4 BULK	K03
0.12 *	5.0	11.0	10.5	7.5	1000		1300	1500	30	MMK7,5 124K250K03L4 BULK	K04
0.15 *	5.0	11.0	10.5	7.5	1000		1300	1500	30	MMK7,5 154K250K03L4 BULK	K04

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
250 VDC/160 VAC											
LEAD SPACING 7.5 MM											
0.18 *	5.0	11.0	10.5	7.5	1000		1300	1500	30	MMK7,5 184K250K03L4 BULK	---
0.22 *	5.0	11.0	10.5	7.5	1000		1300	1500	30	MMK7,5 224K250K03L4 BULK	---
0.27 *	6.0	12.0	10.5	7.5	1000		1000	1200	30	MMK7,5 274K250K04L4 BULK	---
0.33 *	6.0	12.0	10.5	7.5	1000		1000	1200	30	MMK7,5 334K250K04L4 BULK	---
LEAD SPACING 10 MM											
0.0010	4.0	9.0	13.0	10.0	1000		900		20	MMK10 102K250A01L4 BULK	
0.0012	4.0	9.0	13.0	10.0	1000		900		20	MMK10 122K250A01L4 BULK	
0.0015	4.0	9.0	13.0	10.0	1000		900		20	MMK10 152K250A01L4 BULK	
0.0018	4.0	9.0	13.0	10.0	1000		900		20	MMK10 182K250A01L4 BULK	
0.0022	4.0	9.0	13.0	10.0	1000		900		20	MMK10 222K250A01L4 BULK	
0.0027	4.0	9.0	13.0	10.0	1000		900		20	MMK10 272K250A01L4 BULK	
0.0033	4.0	9.0	13.0	10.0	1000		900		20	MMK10 332K250A01L4 BULK	
0.0039	4.0	9.0	13.0	10.0	1000		900		20	MMK10 392K250A01L4 BULK	
0.0047	4.0	9.0	13.0	10.0	1000		900		20	MMK10 472K250A01L4 BULK	
0.0056	4.0	9.0	13.0	10.0	1000		900		20	MMK10 562K250A01L4 BULK	
0.0068	4.0	9.0	13.0	10.0	1000		900		20	MMK10 682K250A01L4 BULK	
0.0082	4.0	9.0	13.0	10.0	1000		900		20	MMK10 822K250A01L4 BULK	
0.010	4.0	9.0	13.0	10.0	1000		900		20	MMK10 103K250A01L4 BULK	
0.012	4.0	9.0	13.0	10.0	1000		900		20	MMK10 123K250A01L4 BULK	
0.015	4.0	9.0	13.0	10.0	1000		900		20	MMK10 153K250A01L4 BULK	
0.018	4.0	9.0	13.0	10.0	1000		900		20	MMK10 183K250A01L4 BULK	
0.022	4.0	9.0	13.0	10.0	1000		900		20	MMK10 223K250A01L4 BULK	
0.027	4.0	9.0	13.0	10.0	1000		900		20	MMK10 273K250A01L4 BULK	
0.033	4.0	9.0	13.0	10.0	1000		900		20	MMK10 333K250A01L4 BULK	
0.039	4.0	9.0	13.0	10.0	1000		900		20	MMK10 393K250A01L4 BULK	
0.047	4.0	9.0	13.0	10.0	1000		900		20	MMK10 473K250A01L4 BULK	
0.056	4.0	9.0	13.0	10.0	1000		900		20	MMK10 563K250A01L4 BULK	
0.068	4.0	9.0	13.0	10.0	1000		900		20	MMK10 683K250A01L4 BULK	
0.082 *	4.0	9.0	13.0	10.0	1000		900		20	MMK10 823K250A01L4 BULK	A03
0.10 *	4.0	9.0	13.0	10.0	1000		900		20	MMK10 104K250A01L4 BULK	A03
0.12 *	4.0	9.0	13.0	10.0	1000		900		20	MMK10 124K250A01L4 BULK	A03
0.15 *	4.0	9.0	13.0	10.0	1000		900		20	MMK10 154K250A01L4 BULK	---
0.18 *	4.0	9.0	13.0	10.0	1000		900		20	MMK10 184K250A01L4 BULK	---
0.22 *	4.5	10.5	13.0	10.0	1000		800		20	MMK10 224K250A02L4 BULK	---
0.27 *	5.0	11.0	13.0	10.0	800		700		20	MMK10 274K250A03L4 BULK	---
0.33 *	6.0	12.0	13.0	10.0	600		500		20	MMK10 334K250A04L4 BULK	---
0.39 *	6.0	12.0	13.0	10.0	600		500		20	MMK10 394K250A04L4 BULK	---
LEAD SPACING 15 MM											
0.082	5.5	10.5	18.0	15.0	1000		600		12	MMK15 823K250B04L4 BULK	
0.10	5.5	10.5	18.0	15.0	1000		600		12	MMK15 104K250B04L4 BULK	
0.12	5.5	10.5	18.0	15.0	1000		600		12	MMK15 124K250B04L4 BULK	
0.15	5.5	10.5	18.0	15.0	1000		600		12	MMK15 154K250B04L4 BULK	
0.18	5.5	10.5	18.0	15.0	1000		600		12	MMK15 184K250B04L4 BULK	
0.22	5.5	10.5	18.0	15.0	1000		600		12	MMK15 224K250B04L4 BULK	
0.27 *	5.5	10.5	18.0	15.0	1000		600		12	MMK15 274K250B04L4 BULK	B10
0.33 *	5.5	10.5	18.0	15.0	1000		600		12	MMK15 334K250B04L4 BULK	B10
0.39 *	5.5	10.5	18.0	15.0	1000		600		12	MMK15 394K250B04L4 BULK	B06
0.47 *	5.5	12.5	18.0	15.0	1000		600		12	MMK15 474K250B05L4 BULK	B06
0.56 *	6.5	12.5	18.0	15.0	1000		500		12	MMK15 564K250B10L4 BULK	B06
0.68 *	6.5	12.5	18.0	15.0	1000		500		12	MMK15 684K250B10L4 BULK	B06
0.82 *	7.5	14.5	18.0	15.0	800		400		12	MMK15 824K250B06L4 BULK	B12
1.0 *	7.5	14.5	18.0	15.0	800		400		12	MMK15 105K250B06L4 BULK	B11
1.2 *	8.0	15.0	18.0	15.0	600		400		12	MMK15 125K250B12L4 BULK	---
1.5 *	9.5	17.5	18.0	15.0	500		350		12	MMK15 155K250B14L4 BULK	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
250 VDC/160 VAC											
LEAD SPACING 22.5 MM											
0.47	6.5	14.5	26.0	22.5		234			8	MMK22,5 474K250D13L4 TRAY	
0.56	6.5	14.5	26.0	22.5		234			8	MMK22,5 564K250D13L4 TRAY	
0.68	6.5	14.5	26.0	22.5		234			8	MMK22,5 684K250D13L4 TRAY	
0.82 *	6.5	14.5	26.0	22.5		234			8	MMK22,5 824K250D13L4 TRAY	D17
1.0 *	6.5	14.5	26.0	22.5		234			8	MMK22,5 105K250D13L4 TRAY	D14
1.2 *	7.0	16.5	26.0	22.5		216			8	MMK22,5 125K250D17L4 TRAY	D15
1.5 *	8.0	16.0	26.0	22.5		186			8	MMK22,5 155K250D14L4 TRAY	D15
1.8 *	9.0	18.5	26.0	22.5		168			8	MMK22,5 185K250D15L4 TRAY	D18
2.0 *	9.0	18.5	26.0	22.5		168			8	MMK22,5 205K250D15L4 TRAY	D16
2.2 *	9.0	18.5	26.0	22.5		168			8	MMK22,5 225K250D15L4 TRAY	D16
2.7 *	10.5	19.0	26.0	22.5		264			8	MMK22,5 275K250D18L4 TRAY	---
3.3 *	11.0	21.5	26.0	22.5		253			8	MMK22,5 335K250D16L4 TRAY	---
3.9 *	15.5	24.5	26.0	22.5		176			8	MMK22,5 395K250D19L4 TRAY	---
4.7 *	15.5	24.5	26.0	22.5		176			8	MMK22,5 475K250D19L4 TRAY	---
5.6 *	15.5	24.5	26.0	22.5		176			8	MMK22,5 565K250D19L4 TRAY	---
LEAD SPACING 27.5 MM											
1.5	10.5	20.5	31.5	27.5		216			5	MMK27,5 155K250F11L4 TRAY	
1.8	10.5	20.5	31.5	27.5		216			5	MMK27,5 185K250F11L4 TRAY	
2.0	10.5	20.5	31.5	27.5		216			5	MMK27,5 205K250F11L4 TRAY	
2.2	10.5	20.5	31.5	27.5		216			5	MMK27,5 225K250F11L4 TRAY	
2.5 *	10.5	20.5	31.5	27.5		216			5	MMK27,5 255K250F11L4 TRAY	F12
2.7 *	10.5	20.5	31.5	27.5		216			5	MMK27,5 275K250F11L4 TRAY	F12
3.3 *	10.5	20.5	31.5	27.5		216			5	MMK27,5 335K250F11L4 TRAY	F12
3.9 *	11.5	22.5	31.5	27.5		198			5	MMK27,5 395K250F12L4 TRAY	F13
4.7 *	13.5	23.0	31.5	27.5		171			5	MMK27,5 475K250F03L4 TRAY	F14
5.6 *	14.5	24.5	31.5	27.5		153			5	MMK27,5 565K250F13L4 TRAY	F14
6.8 *	17.5	28.0	31.5	27.5		126			5	MMK27,5 685K250F14L4 TRAY	---
8.2 *	19.0	29.0	31.5	27.5		117			5	MMK27,5 825K250F15L4 TRAY	---
10 *	21.0	30.0	31.5	27.5		108			5	MMK27,5 106K250F16L4 TRAY	---
LEAD SPACING 37.5 MM											
4.7	13.0	24.0	41.0	37.5		140			3	MMK37,5 475K250R05L4 TRAY	
5.6 *	13.0	24.0	41.0	37.5		140			3	MMK37,5 565K250R05L4 TRAY	R04
6.8 *	13.0	24.0	41.0	37.5		140			3	MMK37,5 685K250R05L4 TRAY	R04
8.2 *	15.0	26.0	41.0	37.5		119			3	MMK37,5 825K250R04L4 TRAY	R02
10 *	15.0	26.0	41.0	37.5		119			3	MMK37,5 106K250R04L4 TRAY	R03
12 *	16.5	32.0	41.0	37.5		105			3	MMK37,5 126K250R02L4 TRAY	R03
15 *	16.5	32.0	41.0	37.5		105			3	MMK37,5 156K250R02L4 TRAY	---
18 *	19.0	36.0	41.0	37.5		91			3	MMK37,5 186K250R03L4 TRAY	---
22 *	21.0	38.0	41.0	37.5		84			3	MMK37,5 226K250R06L4 TRAY	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
400 VDC/200 VAC											
LEAD SPACING 5 MM											
0.0010	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 102K400J01L4 BULK	
0.0012	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 122K400J01L4 BULK	
0.0015	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 152K400J01L4 BULK	
0.0018	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 182K400J01L4 BULK	
0.0022	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 222K400J01L4 BULK	
0.0027	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 272K400J01L4 BULK	
0.0033	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 332K400J01L4 BULK	
0.0039	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 392K400J01L4 BULK	
0.0047	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 472K400J01L4 BULK	
0.0056	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 562K400J01L4 BULK	
0.0068	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 682K400J01L4 BULK	
0.0082 *	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 822K400J01L4 BULK	---
0.010 *	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 103K400J01L4 BULK	---
0.012 *	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 123K400J01L4 BULK	---
0.015 *	2.5	6.5	7.2	5.0	2000		2500	3000	50	MMK5 153K400J01L4 BULK	---
0.018 *	3.5	8.0	7.2	5.0	2000		2000	2000	50	MMK5 183K400J02L4 BULK	---
0.022 *	3.5	8.0	7.2	5.0	2000		2000	2000	50	MMK5 223K400J02L4 BULK	---
0.027 *	4.5	9.0	7.2	5.0	1000		1500	1700	50	MMK5 273K400J03L4 BULK	---
0.033 *	4.5	9.0	7.2	5.0	1000		1500	1700	50	MMK5 333K400J03L4 BULK	---
0.039 *	4.5	9.0	7.2	5.0	1000		1500	1700	50	MMK5 393K400J03L4 BULK	---
0.047 *	4.5	9.0	7.2	5.0	1000		1500	1700	50	MMK5 473K400J03L4 BULK	---
0.056 *	6.0	11.0	7.2	5.0	1000		1000	1200	50	MMK5 563K400J05L4 BULK	---
0.068 *	6.0	11.0	7.2	5.0	1000		1000	1200	50	MMK5 683K400J05L4 BULK	---
0.082 *	7.2	13.0	7.2	5.0	1000		800		50	MMK5 823K400J06L4 BULK	---
0.10 *	7.2	13.0	7.2	5.0	1000		800		50	MMK5 104K400J06L4 BULK	---
LEAD SPACING 7.5 MM											
0.0010	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 102K400K00L4 BULK	
0.0012	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 122K400K00L4 BULK	
0.0015	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 152K400K00L4 BULK	
0.0018	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 182K400K00L4 BULK	
0.0022	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 222K400K00L4 BULK	
0.0027	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 272K400K00L4 BULK	
0.0033	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 332K400K00L4 BULK	
0.0039	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 392K400K00L4 BULK	
0.0047 *	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 472K400K00L4 BULK	K01
0.0056 *	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 562K400K00L4 BULK	K01
0.0068 *	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 682K400K00L4 BULK	K01
0.0082 *	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 822K400K00L4 BULK	K01
0.010 *	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 103K400K00L4 BULK	K01
0.012 *	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 123K400K00L4 BULK	K01
0.015 *	2.5	6.0	10.0	7.5	2000		2500	3000	40	MMK7,5 153K400K00L4 BULK	K01
0.018	4.0	8.0	10.5	7.5	1000		1700	1900	40	MMK7,5 183K400K01L4 BULK	
0.022 *	4.0	8.0	10.5	7.5	1000		1700	1900	40	MMK7,5 223K400K01L4 BULK	K03
0.027 *	4.0	8.0	10.5	7.5	1000		1700	1900	40	MMK7,5 273K400K01L4 BULK	K03
0.033 *	4.0	8.0	10.5	7.5	1000		1700	1900	40	MMK7,5 333K400K01L4 BULK	K03
0.039 *	4.0	8.0	10.5	7.5	1000		1700	1900	40	MMK7,5 393K400K01L4 BULK	K03
0.047 *	5.0	11.0	10.5	7.5	1000		1300	1500	40	MMK7,5 473K400K03L4 BULK	K04
0.056 *	5.0	11.0	10.5	7.5	1000		1300	1500	40	MMK7,5 563K400K03L4 BULK	---
0.068 *	5.0	11.0	10.5	7.5	1000		1300	1500	40	MMK7,5 683K400K03L4 BULK	---
0.082 *	5.0	11.0	10.5	7.5	1000		1300	1500	40	MMK7,5 823K400K03L4 BULK	---
0.10 *	5.0	11.0	10.5	7.5	1000		1300	1500	40	MMK7,5 104K400K03L4 BULK	---
0.12 *	6.0	12.0	10.5	7.5	1000		1000	1200	40	MMK7,5 124K400K04L4 BULK	---
0.15 *	6.0	12.0	10.5	7.5	1000		1000	1200	40	MMK7,5 154K400K04L4 BULK	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
400 VDC/200 VAC											
LEAD SPACING 10 MM											
0.0010	4.0	9.0	13.0	10.0	1000		900		30	MMK10 102K400A01L4 BULK	
0.0012	4.0	9.0	13.0	10.0	1000		900		30	MMK10 122K400A01L4 BULK	
0.0015	4.0	9.0	13.0	10.0	1000		900		30	MMK10 152K400A01L4 BULK	
0.0018	4.0	9.0	13.0	10.0	1000		900		30	MMK10 182K400A01L4 BULK	
0.0022	4.0	9.0	13.0	10.0	1000		900		30	MMK10 222K400A01L4 BULK	
0.0027	4.0	9.0	13.0	10.0	1000		900		30	MMK10 272K400A01L4 BULK	
0.0033	4.0	9.0	13.0	10.0	1000		900		30	MMK10 332K400A01L4 BULK	
0.0039	4.0	9.0	13.0	10.0	1000		900		30	MMK10 392K400A01L4 BULK	
0.0047	4.0	9.0	13.0	10.0	1000		900		30	MMK10 472K400A01L4 BULK	
0.0056	4.0	9.0	13.0	10.0	1000		900		30	MMK10 562K400A01L4 BULK	
0.0068	4.0	9.0	13.0	10.0	1000		900		30	MMK10 682K400A01L4 BULK	
0.0078	4.0	9.0	13.0	10.0	1000		900		30	MMK10 782K400A01L4 BULK	
0.0082	4.0	9.0	13.0	10.0	1000		900		30	MMK10 822K400A01L4 BULK	
0.010	4.0	9.0	13.0	10.0	1000		900		30	MMK10 103K400A01L4 BULK	
0.012	4.0	9.0	13.0	10.0	1000		900		30	MMK10 123K400A01L4 BULK	
0.015	4.0	9.0	13.0	10.0	1000		900		30	MMK10 153K400A01L4 BULK	
0.018	4.0	9.0	13.0	10.0	1000		900		30	MMK10 183K400A01L4 BULK	
0.022	4.0	9.0	13.0	10.0	1000		900		30	MMK10 223K400A01L4 BULK	
0.027 *	4.0	9.0	13.0	10.0	1000		900		30	MMK10 273K400A01L4 BULK	A02
0.033 *	4.0	9.0	13.0	10.0	1000		900		30	MMK10 333K400A01L4 BULK	A02
0.039 *	4.0	9.0	13.0	10.0	1000		900		30	MMK10 393K400A01L4 BULK	A03
0.047 *	4.0	9.0	13.0	10.0	1000		900		30	MMK10 473K400A01L4 BULK	A03
0.056 *	4.0	9.0	13.0	10.0	1000		900		30	MMK10 563K400A01L4 BULK	---
0.068 *	4.0	9.0	13.0	10.0	1000		900		30	MMK10 683K400A01L4 BULK	---
0.082 *	4.5	10.5	13.0	10.0	1000		800		30	MMK10 823K400A02L4 BULK	---
0.10 *	5.0	11.0	13.0	10.0	800		700		30	MMK10 104K400A03L4 BULK	---
0.12 *	5.0	11.0	13.0	10.0	800		700		30	MMK10 124K400A03L4 BULK	---
0.15 *	6.0	12.0	13.0	10.0	600		500		30	MMK10 154K400A04L4 BULK	---
LEAD SPACING 15 MM											
0.047	5.5	10.5	18.0	15.0	1000		600		20	MMK15 473K400B04L4 BULK	
0.056	5.5	10.5	18.0	15.0	1000		600		20	MMK15 563K400B04L4 BULK	
0.068	5.5	10.5	18.0	15.0	1000		600		20	MMK15 683K400B04L4 BULK	
0.082 *	5.5	10.5	18.0	15.0	1000		600		20	MMK15 823K400B04L4 BULK	B05
0.10 *	5.5	10.5	18.0	15.0	1000		600		20	MMK15 104K400B04L4 BULK	B05
0.12 *	5.5	10.5	18.0	15.0	1000		600		20	MMK15 124K400B04L4 BULK	B10
0.15 *	5.5	10.5	18.0	15.0	1000		600		20	MMK15 154K400B04L4 BULK	B06
0.18 *	5.5	12.5	18.0	15.0	1000		600		20	MMK15 184K400B05L4 BULK	B06
0.22 *	5.5	12.5	18.0	15.0	1000		600		20	MMK15 224K400B05L4 BULK	B12
0.27 *	6.5	12.5	18.0	15.0	1000		500		20	MMK15 274K400B10L4 BULK	---
0.33 *	7.5	14.5	18.0	15.0	800		400		20	MMK15 334K400B06L4 BULK	---
0.39 *	7.5	14.5	18.0	15.0	800		400		20	MMK15 394K400B06L4 BULK	---
0.47 *	8.5	16.0	18.0	15.0	600		400		20	MMK15 474K400B11L4 BULK	---
0.56 *	8.5	16.0	18.0	15.0	600		400		20	MMK15 564K400B11L4 BULK	---
0.68 *	9.5	17.5	18.0	15.0	500		350		20	MMK15 684K400B14L4 BULK	---
LEAD SPACING 22.5 MM											
0.18	6.5	14.5	26.0	22.5		234			10	MMK22,5 184K400D13L4 TRAY	
0.22	6.5	14.5	26.0	22.5		234			10	MMK22,5 224K400D13L4 TRAY	
0.27	6.5	14.5	26.0	22.5		234			10	MMK22,5 274K400D13L4 TRAY	
0.33 *	6.5	14.5	26.0	22.5		234			10	MMK22,5 334K400D13L4 TRAY	D17
0.39 *	6.5	14.5	26.0	22.5		234			10	MMK22,5 394K400D13L4 TRAY	D14
0.47 *	6.5	14.5	26.0	22.5		234			10	MMK22,5 474K400D13L4 TRAY	D15
0.56 *	7.0	16.5	26.0	22.5		216			10	MMK22,5 564K400D17L4 TRAY	D15
0.68 *	8.0	16.0	26.0	22.5		186			10	MMK22,5 684K400D14L4 TRAY	D18
0.82 *	9.0	18.5	26.0	22.5		168			10	MMK22,5 824K400D15L4 TRAY	---
1.0 *	9.0	18.5	26.0	22.5		168			10	MMK22,5 105K400D15L4 TRAY	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
400 VDC/200 VAC											
LEAD SPACING 22.5 MM											
1.2 *	10.5	19.0	26.0	22.5		264			10	MMK22,5 125K400D18L4 TRAY	---
1.5 *	11.0	21.5	26.0	22.5		253			10	MMK22,5 155K400D16L4 TRAY	---
1.8 *	15.5	24.5	26.0	22.5		176			10	MMK22,5 185K400D19L4 TRAY	---
2.2 *	15.5	24.5	26.0	22.5		176			10	MMK22,5 225K400D19L4 TRAY	---
2.7 *	15.5	24.5	26.0	22.5		176			10	MMK22,5 275K400D19L4 TRAY	---
LEAD SPACING 27.5 MM											
0.68	10.5	20.5	31.5	27.5		216			8	MMK27,5 684K400F11L4 TRAY	
0.82	10.5	20.5	31.5	27.5		216			8	MMK27,5 824K400F11L4 TRAY	
1.0	10.5	20.5	31.5	27.5		216			8	MMK27,5 105K400F11L4 TRAY	
1.2 *	10.5	20.5	31.5	27.5		216			8	MMK27,5 125K400F11L4 TRAY	F12
1.5 *	10.5	20.5	31.5	27.5		216			8	MMK27,5 155K400F11L4 TRAY	F13
1.8 *	10.5	20.5	31.5	27.5		216			8	MMK27,5 185K400F11L4 TRAY	F14
2.2 *	11.5	22.5	31.5	27.5		198			8	MMK27,5 225K400F12L4 TRAY	F14
2.7 *	13.5	23.0	31.5	27.5		171			8	MMK27,5 275K400F03L4 TRAY	---
3.3 *	17.5	28.0	31.5	27.5		126			8	MMK27,5 335K400F14L4 TRAY	---
3.9 *	17.5	28.0	31.5	27.5		126			8	MMK27,5 395K400F14L4 TRAY	---
4.7 *	19.0	29.0	31.5	27.5		117			8	MMK27,5 475K400F15L4 TRAY	---
5.6 *	21.0	30.0	31.5	27.5		108			8	MMK27,5 565K400F16L4 TRAY	---
LEAD SPACING 37.5 MM											
1.8	13.0	24.0	41.0	37.5		140			5	MMK37,5 185K400R05L4 TRAY	
2.2 *	13.0	24.0	41.0	37.5		140			5	MMK37,5 225K400R05L4 TRAY	R04
2.7 *	13.0	24.0	41.0	37.5		140			5	MMK37,5 275K400R05L4 TRAY	R04
3.3 *	13.0	24.0	41.0	37.5		140			5	MMK37,5 335K400R05L4 TRAY	R02
3.9 *	15.0	26.0	41.0	37.5		119			5	MMK37,5 395K400R04L4 TRAY	R03
4.7 *	15.0	26.0	41.0	37.5		119			5	MMK37,5 475K400R04L4 TRAY	R03
5.6 *	16.5	32.0	41.0	37.5		105			5	MMK37,5 565K400R02L4 TRAY	---
6.8 *	19.0	36.0	41.0	37.5		91			5	MMK37,5 685K400R03L4 TRAY	---
8.2 *	19.0	36.0	41.0	37.5		91			5	MMK37,5 825K400R03L4 TRAY	---
10 *	21.0	38.0	41.0	37.5		84			5	MMK37,5 106K400R06L4 TRAY	---
630 VDC/220 VAC											
LEAD SPACING 5 MM											
0.0010 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 102K630J01L4 BULK	---
0.0012 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 122K630J01L4 BULK	---
0.0015 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 152K630J01L4 BULK	---
0.0018 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 182K630J01L4 BULK	---
0.0022 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 222K630J01L4 BULK	---
0.0027 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 272K630J01L4 BULK	---
0.0033 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 332K630J01L4 BULK	---
0.0039 *	2.5	6.5	7.2	5.0	2000		2500	3000	80	MMK5 392K630J01L4 BULK	---
0.0047 *	3.5	8.0	7.2	5.0	2000		2000	2000	80	MMK5 472K630J02L4 BULK	---
0.0056 *	3.5	8.0	7.2	5.0	2000		2000	2000	80	MMK5 562K630J02L4 BULK	---
0.0068 *	3.5	8.0	7.2	5.0	2000		2000	2000	80	MMK5 682K630J02L4 BULK	---
0.0082 *	3.5	8.0	7.2	5.0	2000		2000	2000	80	MMK5 822K630J02L4 BULK	---
0.010 *	3.5	8.0	7.2	5.0	2000		2000	2000	80	MMK5 103K630J02L4 BULK	---
0.012 *	4.5	9.0	7.2	5.0	1000		1500	1700	80	MMK5 123K630J03L4 BULK	---
0.015 *	4.5	9.0	7.2	5.0	1000		1500	1700	80	MMK5 153K630J03L4 BULK	---
0.018 *	4.5	9.0	7.2	5.0	1000		1500	1700	80	MMK5 183K630J03L4 BULK	---
0.022 *	5.0	10.0	7.2	5.0	1000		1300	1500	80	MMK5 223K630J04L4 BULK	---
0.027 *	6.0	11.0	7.2	5.0	1000		1000	1200	80	MMK5 273K630J05L4 BULK	---
0.033 *	6.0	11.0	7.2	5.0	1000		1000	1200	80	MMK5 333K630J05L4 BULK	---
0.039 *	7.2	13.0	7.2	5.0	1000		800		80	MMK5 393K630J06L4 BULK	---
0.047 *	7.2	13.0	7.2	5.0	1000		800		80	MMK5 473K630J06L4 BULK	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
630 VDC/220 VAC											
LEAD SPACING 7.5 MM											
0.0010	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 102K630K00L4 BULK	
0.0012	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 122K630K00L4 BULK	
0.0015	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 152K630K00L4 BULK	
0.0018 *	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 182K630K00L4 BULK	K01
0.0022 *	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 222K630K00L4 BULK	K01
0.0027 *	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 272K630K00L4 BULK	K01
0.0033 *	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 332K630K00L4 BULK	K01
0.0039 *	2.5	6.0	10.0	7.5	2000		2500	3000	60	MMK7,5 392K630K00L4 BULK	K01
0.0047	4.0	8.0	10.5	7.5	1000		1700	1900	60	MMK7,5 472K630K01L4 BULK	K01
0.0056	4.0	8.0	10.5	7.5	1000		1700	1900	60	MMK7,5 562K630K01L4 BULK	K01
0.0068	4.0	8.0	10.5	7.5	1000		1700	1900	60	MMK7,5 682K630K01L4 BULK	K01
0.0082	4.0	8.0	10.5	7.5	1000		1700	1900	60	MMK7,5 822K630K01L4 BULK	K01
0.010 *	4.0	8.0	10.5	7.5	1000		1700	1900	60	MMK7,5 103K630K01L4 BULK	K03
0.012 *	4.0	8.0	10.5	7.5	1000		1700	1900	60	MMK7,5 123K630K01L4 BULK	K03
0.015	5.0	11.0	10.5	7.5	1000		1300	1500	60	MMK7,5 153K630K03L4 BULK	K03
0.018 *	5.0	11.0	10.5	7.5	1000		1300	1500	60	MMK7,5 183K630K03L4 BULK	K04
0.022 *	5.0	11.0	10.5	7.5	1000		1300	1500	60	MMK7,5 223K630K03L4 BULK	K04
0.027 *	5.0	11.0	10.5	7.5	1000		1300	1500	60	MMK7,5 273K630K03L4 BULK	---
0.033 *	6.0	12.0	10.5	7.5	1000		1000	1200	60	MMK7,5 333K630K04L4 BULK	---
0.039 *	6.0	12.0	10.5	7.5	1000		1000	1200	60	MMK7,5 393K630K04L4 BULK	---
LEAD SPACING 10 MM											
0.0010	4.0	9.0	13.0	10.0	1000		900		40	MMK10 102K630A01L4 BULK	
0.0012	4.0	9.0	13.0	10.0	1000		900		40	MMK10 122K630A01L4 BULK	
0.0015	4.0	9.0	13.0	10.0	1000		900		40	MMK10 152K630A01L4 BULK	
0.0018	4.0	9.0	13.0	10.0	1000		900		40	MMK10 182K630A01L4 BULK	
0.0022	4.0	9.0	13.0	10.0	1000		900		40	MMK10 222K630A01L4 BULK	
0.0027	4.0	9.0	13.0	10.0	1000		900		40	MMK10 272K630A01L4 BULK	
0.0033	4.0	9.0	13.0	10.0	1000		900		40	MMK10 332K630A01L4 BULK	
0.0039	4.0	9.0	13.0	10.0	1000		900		40	MMK10 392K630A01L4 BULK	
0.0047	4.0	9.0	13.0	10.0	1000		900		40	MMK10 472K630A01L4 BULK	
0.0056	4.0	9.0	13.0	10.0	1000		900		40	MMK10 562K630A01L4 BULK	
0.0068	4.0	9.0	13.0	10.0	1000		900		40	MMK10 682K630A01L4 BULK	
0.0078	4.0	9.0	13.0	10.0	1000		900		40	MMK10 782K630A01L4 BULK	
0.0082	4.0	9.0	13.0	10.0	1000		900		40	MMK10 822K630A01L4 BULK	
0.010	4.0	9.0	13.0	10.0	1000		900		40	MMK10 103K630A01L4 BULK	
0.012	4.0	9.0	13.0	10.0	1000		900		40	MMK10 123K630A01L4 BULK	
0.015 *	4.0	9.0	13.0	10.0	1000		900		40	MMK10 153K630A01L4 BULK	A03
0.018 *	4.0	9.0	13.0	10.0	1000		900		40	MMK10 183K630A01L4 BULK	A03
0.022 *	4.0	9.0	13.0	10.0	1000		900		40	MMK10 223K630A01L4 BULK	A03
0.027 *	4.5	10.5	13.0	10.0	1000		800		40	MMK10 273K630A02L4 BULK	---
0.033 *	4.5	10.5	13.0	10.0	1000		800		40	MMK10 333K630A02L4 BULK	---
0.039 *	5.0	11.0	13.0	10.0	800		700		40	MMK10 393K630A03L4 BULK	---
0.047 *	6.0	12.0	13.0	10.0	600		500		40	MMK10 473K630A04L4 BULK	---
0.056 *	6.0	12.0	13.0	10.0	600		500		40	MMK10 563K630A04L4 BULK	---
LEAD SPACING 15 MM											
0.027	5.5	10.5	18.0	15.0	1000		600		25	MMK15 273K630B04L4 BULK	
0.033	5.5	10.5	18.0	15.0	1000		600		25	MMK15 333K630B04L4 BULK	
0.039 *	5.5	10.5	18.0	15.0	1000		600		25	MMK15 393K630B04L4 BULK	B05
0.047 *	5.5	10.5	18.0	15.0	1000		600		25	MMK15 473K630B04L4 BULK	B10
0.056 *	5.5	10.5	18.0	15.0	1000		600		25	MMK15 563K630B04L4 BULK	B10
0.068 *	5.5	12.5	18.0	15.0	1000		600		25	MMK15 683K630B05L4 BULK	B06
0.082 *	6.5	12.5	18.0	15.0	1000		500		25	MMK15 823K630B10L4 BULK	B11
0.10 *	6.5	12.5	18.0	15.0	1000		500		25	MMK15 104K630B10L4 BULK	B11
0.12 *	7.5	14.5	18.0	15.0	800		400		25	MMK15 124K630B06L4 BULK	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
630 VDC/220 VAC											
LEAD SPACING 15 MM											
0.15 *	7.5	14.5	18.0	15.0	800		400		25	MMK15 154K630B06L4 BULK	---
0.18 *	8.0	15.0	18.0	15.0	600		400		25	MMK15 184K630B12L4 BULK	---
0.22 *	9.5	17.5	18.0	15.0	500		350		25	MMK15 224K630B14L4 BULK	---
LEAD SPACING 22.5 MM											
0.082	6.5	14.5	26.0	22.5		234			12	MMK22,5 823K630D13L4 TRAY	
0.10	6.5	14.5	26.0	22.5		234			12	MMK22,5 104K630D13L4 TRAY	
0.12 *	6.5	14.5	26.0	22.5		234			12	MMK22,5 124K630D13L4 TRAY	D17
0.15 *	6.5	14.5	26.0	22.5		234			12	MMK22,5 154K630D13L4 TRAY	D17
0.18 *	7.0	16.5	26.0	22.5		216			12	MMK22,5 184K630D17L4 TRAY	D14
0.22 *	7.0	16.5	26.0	22.5		216			12	MMK22,5 224K630D17L4 TRAY	D15
0.27 *	8.0	16.0	26.0	22.5		186			12	MMK22,5 274K630D14L4 TRAY	D18
0.33 *	9.0	18.5	26.0	22.5		168			12	MMK22,5 334K630D15L4 TRAY	D16
0.39 *	10.5	19.0	26.0	22.5		264			12	MMK22,5 394K630D18L4 TRAY	---
0.47 *	11.0	21.5	26.0	22.5		253			12	MMK22,5 474K630D16L4 TRAY	---
0.56 *	15.5	24.5	26.0	22.5		176			12	MMK22,5 564K630D19L4 TRAY	---
0.68 *	15.5	24.5	26.0	22.5		176			12	MMK22,5 684K630D19L4 TRAY	---
0.82 *	15.5	24.5	26.0	22.5		176			12	MMK22,5 824K630D19L4 TRAY	---
LEAD SPACING 27.5 MM											
0.33	10.5	20.5	31.5	27.5		216			10	MMK27,5 334K630F11L4 TRAY	
0.39	10.5	20.5	31.5	27.5		216			10	MMK27,5 394K630F11L4 TRAY	
0.47 *	10.5	20.5	31.5	27.5		216			10	MMK27,5 474K630F11L4 TRAY	F12
0.56 *	10.5	20.5	31.5	27.5		216			10	MMK27,5 564K630F11L4 TRAY	F13
0.68 *	11.5	22.5	31.5	27.5		198			10	MMK27,5 684K630F12L4 TRAY	F13
0.82 *	13.5	23.0	31.5	27.5		171			10	MMK27,5 824K630F03L4 TRAY	F14
1.0 *	14.5	24.5	31.5	27.5		153			10	MMK27,5 105K630F13L4 TRAY	F14
1.2 *	17.5	28.0	31.5	27.5		126			10	MMK27,5 125K630F14L4 TRAY	---
1.5 *	17.5	28.0	31.5	27.5		126			10	MMK27,5 155K630F14L4 TRAY	---
1.8 *	19.0	29.0	31.5	27.5		117			10	MMK27,5 185K630F15L4 TRAY	---
2.2 *	21.0	30.0	31.5	27.5		108			10	MMK27,5 225K630F16L4 TRAY	---
LEAD SPACING 37.5 MM											
0.82	13.0	24.0	41.0	37.5		140			8	MMK37,5 824K630R05L4 TRAY	
1.0 *	13.0	24.0	41.0	37.5		140			8	MMK37,5 105K630R05L4 TRAY	R04
1.2 *	13.0	24.0	41.0	37.5		140			8	MMK37,5 125K630R05L4 TRAY	R04
1.5 *	15.0	26.0	41.0	37.5		119			8	MMK37,5 155K630R04L4 TRAY	R02
1.8 *	15.0	26.0	41.0	37.5		119			8	MMK37,5 185K630R04L4 TRAY	R03
2.2 *	16.5	32.0	41.0	37.5		105			8	MMK37,5 225K630R02L4 TRAY	R03
2.7 *	19.0	36.0	41.0	37.5		91			8	MMK37,5 275K630R03L4 TRAY	---
3.3 *	19.0	36.0	41.0	37.5		91			8	MMK37,5 335K630R03L4 TRAY	---
3.9 *	21.0	38.0	41.0	37.5		84			8	MMK37,5 395K630R06L4 TRAY	---
4.7 *	21.0	38.0	41.0	37.5		84			8	MMK37,5 475K630R06L4 TRAY	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capacitance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
1000 VDC/250 VAC											
LEAD SPACING 5 MM											
0.0010 *	2.5	6.5	7.2	5.0	2000		2500	3000	100	MMK5 102K1000J01L4 BULK	---
0.0012 *	3.5	8.0	7.2	5.0	2000		2000	2000	100	MMK5 122K1000J02L4 BULK	---
0.0015 *	3.5	8.0	7.2	5.0	2000		2000	2000	100	MMK5 152K1000J02L4 BULK	---
0.0018 *	3.5	8.0	7.2	5.0	2000		2000	2000	100	MMK5 182K1000J02L4 BULK	---
0.0022 *	3.5	8.0	7.2	5.0	2000		2000	2000	100	MMK5 222K1000J02L4 BULK	---
0.0027 *	3.5	8.0	7.2	5.0	2000		2000	2000	100	MMK5 272K1000J02L4 BULK	---
0.0033 *	3.5	8.0	7.2	5.0	2000		2000	2000	100	MMK5 332K1000J02L4 BULK	---
0.0039 *	4.5	9.0	7.2	5.0	1000		1500	1700	100	MMK5 392K1000J03L4 BULK	---
0.0047 *	4.5	9.0	7.2	5.0	1000		1500	1700	100	MMK5 472K1000J03L4 BULK	---
0.0056 *	4.5	9.0	7.2	5.0	1000		1500	1700	100	MMK5 562K1000J03L4 BULK	---
0.0068 *	5.0	10.0	7.2	5.0	1000		1300	1500	100	MMK5 682K1000J04L4 BULK	---
0.0082 *	6.0	11.0	7.2	5.0	1000		1000	1200	100	MMK5 822K1000J05L4 BULK	---
0.010 *	6.0	11.0	7.2	5.0	1000		1000	1200	100	MMK5 103K1000J05L4 BULK	---
0.012 *	7.2	13.0	7.2	5.0	1000		800		100	MMK5 123K1000J06L4 BULK	---
0.015 *	7.2	13.0	7.2	5.0	1000		800		100	MMK5 153K1000J06L4 BULK	---
LEAD SPACING 7.5 MM											
0.0010 *	2.5	6.0	10.0	7.5	2000		2500	3000	80	MMK7,5 102K1000K00L4 BULK	---
0.0012 *	2.5	6.0	10.0	7.5	2000		2500	3000	80	MMK7,5 122K1000K00L4 BULK	---
0.0015 *	2.5	6.0	10.0	7.5	2000		2500	3000	80	MMK7,5 152K1000K00L4 BULK	---
0.0015 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 152K1000K01L4 BULK	---
0.0018 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 182K1000K01L4 BULK	---
0.0022 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 222K1000K01L4 BULK	---
0.0027 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 272K1000K01L4 BULK	---
0.0033 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 332K1000K01L4 BULK	---
0.0039 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 392K1000K01L4 BULK	---
0.0047 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 472K1000K01L4 BULK	---
0.0056 *	4.0	8.0	10.5	7.5	1000		1700	1900	80	MMK7,5 562K1000K01L4 BULK	---
0.0068 *	5.0	11.0	10.5	7.5	1000		1300	1500	80	MMK7,5 682K1000K03L4 BULK	---
0.0082 *	5.0	11.0	10.5	7.5	1000		1300	1500	80	MMK7,5 822K1000K03L4 BULK	---
0.010 *	5.0	11.0	10.5	7.5	1000		1300	1500	80	MMK7,5 103K1000K03L4 BULK	---
0.012 *	5.0	11.0	10.5	7.5	1000		1300	1500	80	MMK7,5 123K1000K03L4 BULK	---
0.015 *	6.0	12.0	10.5	7.5	1000		1000	1200	80	MMK7,5 153K1000K04L4 BULK	---
0.018 *	6.0	12.0	10.5	7.5	1000		1000	1200	80	MMK7,5 183K1000K04L4 BULK	---
LEAD SPACING 10 MM											
0.0010	4.0	9.0	13.0	10.0	1000		900		60	MMK10 102K1000A01L4 BULK	
0.0012	4.0	9.0	13.0	10.0	1000		900		60	MMK10 122K1000A01L4 BULK	
0.0015	4.0	9.0	13.0	10.0	1000		900		60	MMK10 152K1000A01L4 BULK	
0.0018	4.0	9.0	13.0	10.0	1000		900		60	MMK10 182K1000A01L4 BULK	
0.0022	4.0	9.0	13.0	10.0	1000		900		60	MMK10 222K1000A01L4 BULK	
0.0027	4.0	9.0	13.0	10.0	1000		900		60	MMK10 272K1000A01L4 BULK	
0.0033	4.0	9.0	13.0	10.0	1000		900		60	MMK10 332K1000A01L4 BULK	
0.0039 *	4.0	9.0	13.0	10.0	1000		900		60	MMK10 392K1000A01L4 BULK	A02
0.0047 *	4.0	9.0	13.0	10.0	1000		900		60	MMK10 472K1000A01L4 BULK	A02
0.0056 *	4.0	9.0	13.0	10.0	1000		900		60	MMK10 562K1000A01L4 BULK	A03
0.0068 *	4.0	9.0	13.0	10.0	1000		900		60	MMK10 682K1000A01L4 BULK	A03
0.0082 *	4.0	9.0	13.0	10.0	1000		900		60	MMK10 822K1000A01L4 BULK	A03
0.010 *	4.5	10.5	13.0	10.0	1000		800		60	MMK10 103K1000A02L4 BULK	A03
0.012 *	4.5	10.5	13.0	10.0	1000		800		60	MMK10 123K1000A02L4 BULK	---
0.015 *	5.0	11.0	13.0	10.0	800		700		60	MMK10 153K1000A03L4 BULK	---
0.018 *	6.0	12.0	13.0	10.0	600		500		60	MMK10 183K1000A04L4 BULK	---
0.022 *	6.0	12.0	13.0	10.0	600		500		60	MMK10 223K1000A04L4 BULK	---

* Existing capacitance value in smaller dimensions or new capacitance value.

ARTICLE TABLE

Capaci-tance µF	Max dimensions in mm B	H	L	p	Quantity per package Bulk	Tray	Reel	Ammo	Max dU/dt V/µs	Article code	Old MMK size
1000 VDC/250 VAC											
LEAD SPACING 15 MM											
0.0082	5.5	10.5	18.0	15.0	1000		600		30	MMK15 822K1000B04L4 BULK	
0.010	5.5	10.5	18.0	15.0	1000		600		30	MMK15 103K1000B04L4 BULK	
0.012	5.5	10.5	18.0	15.0	1000		600		30	MMK15 123K1000B04L4 BULK	
0.015 *	5.5	10.5	18.0	15.0	1000		600		30	MMK15 153K1000B04L4 BULK	B05
0.018 *	5.5	10.5	18.0	15.0	1000		600		30	MMK15 183K1000B04L4 BULK	B05
0.022 *	5.5	10.5	18.0	15.0	1000		600		30	MMK15 223K1000B04L4 BULK	B10
0.027 *	5.5	12.5	18.0	15.0	1000		600		30	MMK15 273K1000B05L4 BULK	B06
0.033 *	6.5	12.5	18.0	15.0	1000		500		30	MMK15 333K1000B10L4 BULK	B06
0.039 *	6.5	12.5	18.0	15.0	1000		500		30	MMK15 393K1000B10L4 BULK	B11
0.047 *	7.5	14.5	18.0	15.0	800		400		30	MMK15 473K1000B06L4 BULK	B11
0.056 *	7.5	14.5	18.0	15.0	800		400		30	MMK15 563K1000B06L4 BULK	---
0.068 *	8.5	16.0	18.0	15.0	600		400		30	MMK15 683K1000B11L4 BULK	---
0.082 *	9.5	17.5	18.0	15.0	500		350		30	MMK15 823K1000B14L4 BULK	---
0.10 *	9.5	17.5	18.0	15.0	500		350		30	MMK15 104K1000B14L4 BULK	---
LEAD SPACING 22.5 MM											
0.033	6.5	14.5	26.0	22.5			234		15	MMK22,5 333K1000D13L4 TRAY	
0.039	6.5	14.5	26.0	22.5			234		15	MMK22,5 393K1000D13L4 TRAY	
0.047	6.5	14.5	26.0	22.5			234		15	MMK22,5 473K1000D13L4 TRAY	
0.056	6.5	14.5	26.0	22.5			234		15	MMK22,5 563K1000D13L4 TRAY	
0.068 *	6.5	14.5	26.0	22.5			234		15	MMK22,5 683K1000D13L4 TRAY	D17
0.082 *	6.5	14.5	26.0	22.5			234		15	MMK22,5 823K1000D13L4 TRAY	D14
0.10 *	6.5	14.5	26.0	22.5			234		15	MMK22,5 104K1000D13L4 TRAY	D15
0.12 *	7.0	16.5	26.0	22.5			216		15	MMK22,5 124K1000D17L4 TRAY	D15
0.15 *	7.0	16.5	26.0	22.5			216		15	MMK22,5 154K1000D17L4 TRAY	D18
0.18 *	8.0	16.0	26.0	22.5			186		15	MMK22,5 184K1000D14L4 TRAY	D16
0.22 *	9.0	18.5	26.0	22.5			168		15	MMK22,5 224K1000D15L4 TRAY	---
0.27 *	10.5	19.0	26.0	22.5			264		15	MMK22,5 274K1000D18L4 TRAY	---
0.33 *	11.0	21.5	26.0	22.5			253		15	MMK22,5 334K1000D16L4 TRAY	---
0.39 *	15.5	24.5	26.0	22.5			176		15	MMK22,5 394K1000D19L4 TRAY	---
0.47 *	15.5	24.5	26.0	22.5			176		15	MMK22,5 474K1000D19L4 TRAY	---
0.56 *	15.5	24.5	26.0	22.5			176		15	MMK22,5 564K1000D19L4 TRAY	---
LEAD SPACING 27.5 MM											
0.15	10.5	20.5	31.5	27.5			216		12	MMK27,5 154K1000F11L4 TRAY	
0.18	10.5	20.5	31.5	27.5			216		12	MMK27,5 184K1000F11L4 TRAY	
0.22	10.5	20.5	31.5	27.5			216		12	MMK27,5 224K1000F11L4 TRAY	
0.27	11.5	22.5	31.5	27.5			198		12	MMK27,5 274K1000F12L4 TRAY	
0.33	14.5	24.5	31.5	27.5			153		12	MMK27,5 334K1000F13L4 TRAY	
0.39	14.5	24.5	31.5	27.5			153		12	MMK27,5 394K1000F13L4 TRAY	
0.47	17.5	28.0	31.5	27.5			126		12	MMK27,5 474K1000F14L4 TRAY	
0.56	17.5	28.0	31.5	27.5			126		12	MMK27,5 564K1000F14L4 TRAY	
LEAD SPACING 37.5 MM											
0.47	13.0	24.0	41.0	37.5			140		10	MMK37,5 474K1000R05L4 TRAY	
0.56	15.0	26.0	41.0	37.5			119		10	MMK37,5 564K1000R04L4 TRAY	
0.68	15.0	26.0	41.0	37.5			119		10	MMK37,5 684K1000R04L4 TRAY	
0.82	16.5	32.0	41.0	37.5			105		10	MMK37,5 824K1000R02L4 TRAY	
1.0	19.0	36.0	41.0	37.5			91		10	MMK37,5 105K1000R03L4 TRAY	
1.2	19.0	36.0	41.0	37.5			91		10	MMK37,5 125K1000R03L4 TRAY	
1.5 *	21.0	38.0	41.0	37.5			84		10	MMK37,5 155K1000R06L4 TRAY	---

* Existing capacitance value in smaller dimensions or new capacitance value.