Metallized Polyester Film Capacitors (MKT) B 32 560 ... B 32 564
Uncoated (Silver Caps)

Extremely small dimensions
Versions with special dimensions can be supplied at short notice

Construction

- Dielectric: polyethylene terephthalate (polyester)
- Stacked-film technology
- Uncoated

Features

- Special dimensions available upon request
- High pulse strength
- Minimum tensile strength of leads >10 N

Typical applications

- Standard applications
- Electronic lamp ballast circuits
- Energy-saving lamps
- Substitute for electrolytics in electronic lamp ballasts (420 Vdc)

Terminals

- Parallel wire leads, tinned
- Also available with (3,0 ± 0,5) mm lead length upon request

Marking

Rated capacitance (coded),
rated dc voltage

Delivery mode

Bulk (untaped)
Taped (AMMO pack or reel) for lead spacing ≤ 15,0 mm.
For notes on taping, refer to page 279.

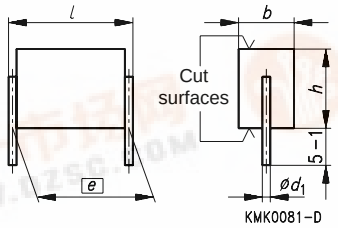
Detail specification

Homologated in accordance with CECC 30 401-007

Notes on mounting

When mounting these capacitors, take into account creepage distances and clearances to adjacent live parts. The insulating strength of the cut surfaces to other live parts of the circuit is 1,5 times the capacitors rated dc voltage, but is always at least 300 Vdc.

Capacitors with 7,5 mm lead spacing are only suitable for use with single-clad printed circuit boards.



Dimensions in mm

Lead spacing e ± 0,4	Diameter d_1	Type
7,5	0,5	B 32 560
10,0	0,5	B 32 561
15,0	0,6	B 32 562
22,5	0,8	B 32 563
27,5	0,8	B 32 564

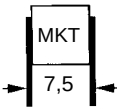
MKT

B 32 560 … B 32 564

Overview of available types

Lead spacing	7,5 mm					10 mm			15 mm				22,5 mm			27,5 mm			
Type	B 32 560					B 32 561			B 32 562				B 32 563			B 32 564			
Page	55					57			58				59			60			
1,0 nF				400 Vdc	630 Vdc														
1,5 nF																			
2,2 nF																			
3,3 nF																			
4,7 nF																			
6,8 nF																			
10 nF								400 Vdc											
15 nF																			
22 nF											400 Vdc								
33 nF			250 Vdc																
47 nF							250 Vdc	400 Vdc											
68 nF												630 Vdc							
0,10 µF		100 Vdc																	
0,15 µF										250 Vdc									
0,22 µF	63 Vdc														400 Vdc				
0,33 µF						100 Vdc													
0,47 µF														250 Vdc					
0,68 µF																			
1,0 µF									100 Vdc								250 Vdc	400 Vdc	
1,5 µF													100 Vdc						
2,2 µF																			
3,3 µF																			
4,7 µF																100 Vdc			420 Vdc
5,6 µF[1)]																			
6,8 µF																			
10 µF																			
15 µF																			
22 µF																			
33 µF																			

1)



Ordering codes and packing units, lead spacing 7,5 mm

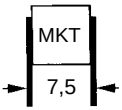
V_R (V_{rms}, $f \leq 60$ Hz)	C_R	Maximum dimensions $b \times h \times l$ (mm)	Ordering code[1]	Packing units (pcs)		
				Ammo pack	Reel	Untaped
63 Vdc (40 Vac)	0,22 µF	2,5 × 5,2 × 9,0	B32560-J224-+	[2]	[2]	2500
	0,33 µF	2,5 × 5,6 × 9,0	B32560-J334-+	[2]	[2]	2500
	0,47 µF	2,6 × 5,8 × 9,0	B32560-J474-+***	3250	2600	2000
	0,68 µF	3,2 × 6,2 × 9,0	B32560-J684-+***	2850	2300	1500
	1,0 µF	4,0 × 6,8 × 9,0	B32560-J105-+***	2200	1800	1000
	1,5 µF	5,1 × 7,6 × 9,0	B32560-J155-+***	1700	1400	500
	2,2 µF	6,5 × 8,2 × 9,0	B32560-J225-+***	1300	1100	500
	3,3 µF	8,5 × 9,1 × 9,0	B32560-J335-+	–	–	350
	4,7 µF	9,8 × 11,0 × 9,0	B32560-J475-+	–	–	250
	6,8 µF	11,5 × 13,3 × 9,0	B32560-J685-+	–	–	150
100 Vdc (63 Vac)	0,10 µF	2,5 × 4,7 × 9,0	B32560-J1104-+	[2]	[2]	3000
	0,15 µF	2,5 × 4,7 × 9,0	B32560-J1154-+	[2]	[2]	3000
	0,22 µF	2,5 × 5,1 × 9,0	B32560-J1224-+***	3400	2700	2000
	0,33 µF	2,7 × 5,7 × 9,0	B32560-J1334-+***	3100	2500	1500
	0,47 µF	3,4 × 6,1 × 9,0	B32560-J1474-+***	2500	2000	1200
	0,68 µF	4,2 × 6,5 × 9,0	B32560-J1684-+***	2000	1600	1000
	1,0 µF	5,5 × 7,0 × 9,0	B32560-J1105-+***	1600	1300	500
	1,5 µF	6,7 × 8,2 × 9,0	B32560-J1155-+	–	–	400
	2,2 µF	8,5 × 9,2 × 9,0	B32560-J1225-+	–	–	300
250 Vdc (160 Vac)	33 nF	2,5 × 4,8 × 9,0	B32560-J3333-+	[2]	[2]	3000
	47 nF	2,5 × 5,2 × 9,0	B32560-J3473-+***	3500	2800	2300
	68 nF	2,6 × 5,7 × 9,0	B32560-J3683-+***	3400	2700	1700
	0,10 µF	3,2 × 6,1 × 9,0	B32560-J3104-+***	2650	2200	1200
	0,15 µF	3,9 × 7,0 × 9,0	B32560-J3154-+***	2150	1800	1000
	0,22 µF	4,9 × 7,5 × 9,0	B32560-J3224-+***	1750	1400	650
	0,33 µF	6,4 × 8,2 × 9,0	B32560-J3334-+	–	–	500

Capacitance tolerance: ±20 % ≙ M, ±10 % ≙ K, ±5 % ≙ J

Special dimensions available upon request. For corresponding design rules, refer to page 238.

1) Replace the + by the code letter for the required capacitance tolerance.
Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
The ordering code for untaped components ends after the tolerance code letter.

2)



B 32 560

Ordering codes and packing units, lead spacing 7,5 mm

V_R (V_{rms}, $f \leq 60$ Hz)	C_R	Maximum dimensions $b \times h \times l$ (mm)	Ordering code[1]	Packing units (pcs)		
				Ammo pack	Reel	Untaped
400 Vdc (200 Vac)	1,0 nF	2,5 × 5,5 × 9,0	B32560-J6102-+	2)	2)	2300
	1,5 nF	2,5 × 5,5 × 9,0	B32560-J6152-+***	3500	2900	2000
	2,2 nF	2,5 × 5,5 × 9,0	B32560-J6222-+***	3700	3000	2100
	3,3 nF	2,5 × 5,5 × 9,0	B32560-J6332-+***	3400	2800	2000
	4,7 nF	2,5 × 5,5 × 9,0	B32560-J6472-+***	3700	3000	2000
	6,8 nF	2,5 × 5,5 × 9,0	B32560-J6682-+***	3700	3000	2000
	10 nF	2,5 × 5,5 × 9,0	B32560-J6103-+***	3500	2800	2200
	15 nF	2,5 × 5,5 × 9,0	B32560-J6153-+***	3500	2800	2500
	22 nF	2,5 × 5,5 × 9,0	B32560-J6223-+***	3400	2700	2300
	33 nF	2,6 × 6,0 × 9,0	B32560-J6333-+***	3400	2700	1600
	47 nF	3,2 × 6,5 × 9,0	B32560-J6473-+***	2650	2200	1200
	68 nF	3,8 × 7,3 × 9,0	B32560-J6683-+***	2250	1900	1000
	0,10 µF	4,9 × 7,7 × 9,0	B32560-J6104-+***	1750	1400	500
	0,15 µF	6,5 × 8,2 × 9,0	B32560-J6154-+	–	–	500
630 Vdc (400 Vac)	1,0 nF	2,5 × 5,5 × 9,0	B32560-J8102-+	2)	2)	2300
	1,5 nF	2,5 × 5,5 × 9,0	B32560-J8152-+***	3500	2900	2000
	2,2 nF	2,5 × 5,5 × 9,0	B32560-J8222-+***	3700	3000	2100
	3,3 nF	2,5 × 5,5 × 9,0	B32560-J8332-+***	3400	2800	2000
	4,7 nF	2,5 × 5,5 × 9,0	B32560-J8472-+***	3400	2700	1800
	6,8 nF	3,2 × 6,5 × 9,0	B32560-J8682-+***	2900	2400	1300
	10 nF	3,8 × 7,5 × 9,0	B32560-J8103-+***	2400	2000	1000

Capacitance tolerance: ±20 % ≙ M, ±10 % ≙ K, ±5 % ≙ J

Special dimensions available upon request. For corresponding design rules, refer to page 238.

1) Replace the + by the code letter for the required capacitance tolerance.
Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
The ordering code for untaped components ends after the tolerance code letter.

2)

Ordering codes and packing units, lead spacing 10 mm

V_R (V_{rms}, $f \leq 60$ Hz)	C_R	Maximum dimensions $b \times h \times l$ (mm)	Ordering code[1]	Packing units (pcs)		
				Ammo pack	Reel	Untaped
100 Vdc (63 Vac)	0,33 µF	2,5 × 5,2 × 11,5	B32561-J1334-+***	1750	2400	1600
	0,47 µF	2,9 × 5,8 × 11,5	B32561-J1474-+***	1560	2300	1200
	0,68 µF	3,6 × 6,3 × 11,5	B32561-J1684-+***	1260	2000	1000
	1,0 µF	4,5 × 6,9 × 11,5	B32561-J1105-+***	1050	1500	500
	1,5 µF	5,6 × 7,8 × 11,5	B32561-J1155-+***	810	1200	500
	2,2 µF	6,9 × 9,0 × 11,5	B32561-J1225-+	–	–	400
250 Vdc (160 Vac)	47 nF	2,5 × 4,4 × 11,5	B32561-J3473-+	2)	2)	2300
	68 nF	2,5 × 4,8 × 11,5	B32561-J3683-+***	1760	2400	1800
	0,10 µF	2,8 × 5,3 × 11,5	B32561-J3104-+***	1600	2300	1300
	0,15 µF	3,3 × 6,0 × 11,5	B32561-J3154-+***	1300	2000	1000
	0,22 µF	4,2 × 6,6 × 11,5	B32561-J3224-+***	1040	1600	700
	0,33 µF	5,2 × 7,5 × 11,5	B32561-J3334-+***	850	1300	500
	0,47 µF	6,3 × 8,5 × 11,5	B32561-J3474-+***	700	1000	400
400 Vdc (200 Vac)	10 nF	2,5 × 5,1 × 11,5	B32561-J6103-+***	1760	2400	1700
	15 nF	2,5 × 5,1 × 11,5	B32561-J6153-+***	1830	2500	2000
	22 nF	2,5 × 5,1 × 11,5	B32561-J6223-+***	1830	2500	2000
	33 nF	2,5 × 5,1 × 11,5	B32561-J6333-+***	1760	2400	1700
	47 nF	2,6 × 6,0 × 11,5	B32561-J6473-+***	1760	2400	1300
	68 nF	3,2 × 6,6 × 11,5	B32561-J6683-+***	1390	2100	1000
	0,10 µF	4,0 × 6,9 × 11,5	B32561-J6104-+***	1090	1700	700
	0,15 µF	5,2 × 7,7 × 11,5	B32561-J6154-+***	850	1300	500
	0,22 µF	6,6 × 8,5 × 11,5	B32561-J6224-+	–	–	300

Capacitance tolerance: ±20 % ≙ M, ±10 % ≙ K, ±5 % ≙ J

Special dimensions available upon request. For corresponding design rules, refer to page 238.

1) Replace the + by the code letter for the required capacitance tolerance.
Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
The ordering code for untaped components ends after the tolerance code letter.

2)

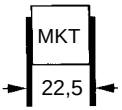
Ordering codes and packing units, lead spacing 15 mm

V_R (V_{rms}, $f \leq 60$ Hz)	C_R	Maximum dimensions $b \times h \times l$ (mm)	Ordering code[1]	Packing units (pcs)		
				Ammo pack	Reel	Untaped
100 Vdc (63 Vac)	1,0 µF	3,2 × 6,3 × 16,5	B32562-J1105-+***	1750	2000	1500
	1,5 µF	4,0 × 7,3 × 16,5	B32562-J1155-+***	1460	1500	1000
	2,2 µF	4,9 × 8,0 × 16,5	B32562-J1225-+***	1190	1300	800
	3,3 µF	6,0 × 9,3 × 16,5	B32562-J1335-+***	960	1000	500
	4,7 µF	7,3 × 10,6 × 16,5	B32562-J1475-+***	790	900	400
	6,8 µF	9,0 × 11,8 × 16,5	B32562-J1685-+***	640	700	290
	10 µF	11,8 × 13,0 × 16,5	B32562-J1106-+	–	–	200
250 Vdc (160 Vac)	0,22 µF	3,2 × 5,6 × 16,5	B32562-J3224-+***	1750	2000	1700
	0,33 µF	4,0 × 6,2 × 16,5	B32562-J3334-+***	1460	1500	1200
	0,47 µF	5,0 × 6,7 × 16,5	B32562-J3474-+***	1190	1300	950
	0,68 µF	6,0 × 7,8 × 16,5	B32562-J3684-+***	960	1000	500
	1,0 µF	7,0 × 9,3 × 16,5	B32562-J3105-+***	830	900	500
	1,5 µF	8,7 × 11,0 × 16,5	B32562-J3155-+***	660	700	300
	2,2 µF	10,7 × 12,8 × 16,5	B32562-J3225-+	–	–	200
	3,3 µF	13,9 × 14,5 × 16,5	B32562-J3335-+	–	–	150
400 Vdc (200 Vac)	22 nF	3,3 × 5,6 × 16,5	B32562-J6223-+***	1750	2000	1800
	33 nF	3,3 × 5,6 × 16,5	B32562-J6333-+***	1750	2000	1800
	47 nF	3,3 × 5,6 × 16,5	B32562-J6473-+***	1870	2100	1800
	68 nF	3,3 × 5,6 × 16,5	B32562-J6683-+***	1800	2000	1800
	0,10 µF	3,3 × 5,6 × 16,5	B32562-J6104-+***	1700	1900	1600
	0,15 µF	3,9 × 6,5 × 16,5	B32562-J6154-+***	1420	1600	1200
	0,22 µF	4,7 × 7,5 × 16,5	B32562-J6224-+***	1240	1300	850
	0,33 µF	6,0 × 8,3 × 16,5	B32562-J6334-+***	960	1000	500
	0,47 µF	7,3 × 9,3 × 16,5	B32562-J6474-+***	790	900	450
	0,68 µF	8,9 × 10,8 × 16,5	B32562-J6684-+***	640	700	300
	1,0 µF	10,9 × 12,5 × 16,5	B32562-J6105-+	–	–	200
630 Vdc (350 Vac)	0,10 µF	6,2 × 9,3 × 16,5	B32562-J8104-+	–	–	700
	0,15 µF	7,6 × 10,8 × 16,5	B32562-J8154-+	–	–	500
	0,22 µF	9,2 × 12,2 × 16,5	B32562-J8224-+	–	–	350
	0,33 µF	11,2 × 14,2 × 16,5	B32562-J8334-+	–	–	250
	0,47 µF	13,5 × 16,3 × 16,5	B32562-J8474-+	–	–	180

Capacitance tolerance: ±20 % ≙ M, ±10 % ≙ K, ±5 % ≙ J

Special dimensions available upon request. For corresponding design rules, refer to page 238.

1) Replace the + by the code letter for the required capacitance tolerance.
Replace the *** by the code number for the required packing: Ammo pack = 289, reel = 189
s ends after the tolerance code letter.



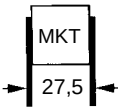
Ordering codes and packing units, lead spacing 22,5 mm

V_R (V_{rms}, $f \leq 60$ Hz)	C_R	Maximum dimensions $b \times h \times l$ (mm)	Ordering code[1)]	Packing units (pcs) Untaped
100 Vdc (63Vac)	1,5 µF	5,0 × 8,0 × 24,0	B32563-J1155-+	1400
	2,2 µF	5,0 × 8,2 × 24,0	B32563-J1225-+	1900
	3,3 µF	5,0 × 8,2 × 24,0	B32563-J1335-+	1900
	4,7 µF	5,9 × 9,0 × 24,0	B32563-J1475-+	1600
	6,8 µF	7,0 × 10,5 × 24,0	B32563-J1685-+	920
	10 µF	8,6 × 12,2 × 24,0	B32563-J1106-+	960
	15 µF	10,9 × 14,0 × 24,0	B32563-J1156-+	620
	22 µF	12,8 × 17,2 × 24,0	B32563-J1226-+	360
250 Vdc (160 Vac)	0,68 µF	4,8 × 7,2 × 24,0	B32563-J3684-+	1760
	1,0 µF	5,6 × 8,2 × 24,0	B32563-J3105-+	1140
	1,5 µF	6,9 × 9,5 × 24,0	B32563-J3155-+	920
	2,2 µF	8,3 × 11,2 × 24,0	B32563-J3225-+	740
	3,3 µF	10,1 × 13,5 × 24,0	B32563-J3335-+	700
	4,7 µF	12,2 × 15,5 × 24,0	B32563-J3475-+	390
400 Vdc (200Vac)	0,22 µF	5,1 × 8,0 × 24,0	B32563-J6224-+	1800
	0,33 µF	5,1 × 8,0 × 24,0	B32563-J6334-+	1700
	0,47 µF	5,7 × 8,3 × 24,0	B32563-J6474-+	1660
	0,68 µF	6,9 × 9,6 × 24,0	B32563-J6684-+	920
	1,0 µF	8,3 × 11,2 × 24,0	B32563-J6105-+	850
	1,5 µF	10,3 × 13,2 × 24,0	B32563-J6155-+	660
	2,2 µF	12,6 × 15,5 × 24,0	B32563-J6225-+	360

Capacitance tolerance: ±20 % ≙ M, ±10 % ≙ K, ±5 % ≙ J

Special dimensions available upon request. For corresponding design rules, refer to page 238.

1) quired capacitance tolerance.



B 32 564

Ordering codes and packing units, lead spacing 27,5 mm

V_R (V_{rms}, $f \leq 60$ Hz)	C_R	Maximum dimensions $b \times h \times l$ (mm)	Ordering code[1)]	Packing units (pcs) Untaped
100 Vdc (63Vac)	4,7 µF	5,6 × 8,3 × 29,0	B32564-J1475-+	1000
	6,8 µF	6,3 × 9,5 × 29,0	B32564-J1685-+	820
	10 µF	7,6 × 11,0 × 29,0	B32564-J1106-+	680
	15 µF	9,1 × 13,5 × 29,0	B32564-J1156-+	430
	22 µF	11,0 × 16,0 × 29,0	B32564-J1226-+	320
	33 µF	13,0 × 19,8 × 29,0	B32564-J1336-+	360
250 Vdc (160 Vac)	1,0 µF	5,1 × 7,6 × 29,0	B32564-J3105-+	1620
	1,5 µF	5,3 × 10,2 × 29,0	B32564-J3155-+	970
	2,2 µF	6,4 × 11,8 × 29,0	B32564-J3225-+	920
	3,3 µF	7,9 × 14,0 × 29,0	B32564-J3335-+	750
	4,7 µF	9,6 × 15,8 × 29,0	B32564-J3475-+	400
	6,8 µF	11,9 × 18,0 × 29,0	B32564-J3685-+	300
	10 µF	13,8 × 22,5 × 29,0	B32564-J3106-+	280
400 Vdc (200 Vac)	1,0 µF	6,8 × 11,2 × 29,0	B32564-J6105-+	750
	1,5 µF	7,8 × 14,2 × 29,0	B32564-J6155-+	750
	2,2 µF	9,6 × 16,4 × 29,0	B32564-J6225-+	400
	3,3 µF	12,2 × 18,8 × 29,0	B32564-J6335-+	330
	4,7 µF	14,2 × 22,8 × 29,0	B32564-J6475-+	260
420 Vdc (200 Vac)	4,7 µF	16,0 × 20,0 × 29,0	B32564-T6475-K	290
	5,6 µF	16,0 × 20,0 × 29,0	B32564-T6565-K	290
	6,8 µF	16,0 × 20,0 × 29,0	B32564-T6685-K	290

Capacitance tolerance: ±20 % ≙ M, ±10 % ≙ K, ±5 % ≙ J

Special dimensions available upon request. For corresponding design rules, refer to page 238.

1) uired capacitance tolerance.

Technical data

Climatic category in accordance with IEC 68-1	55/100/56[1)]
Lower category temperature T_{min} Upper category temperature T_{max}	– 55 °C + 100 °C (+ 125 °C for 1000 h and $V_C = 0{,}5 \cdot V_R$)
Damp heat test	56 days/40 °C/93 % relative humidity
Limit values after damp heat test[1)]	Capacitance change $\lvert\Delta C/C\rvert$ ≤ 5 % Dissipation factor change $\Delta \tan \delta$ ≤ $3 \cdot 10^{-3}$ (at 1 kHz) ≤ $5 \cdot 10^{-3}$ (at 10 kHz) Insulation resistance R_{is} ≥ 50 % of minimum or time constant $\tau = C_R \cdot R_{is}$ as-delivered values
Reliability:	
Reference conditions Failure rate	$0{,}5 \cdot V_R$; 40 °C $2 \cdot 10^{-9}$/h = 2 fit For a conversion table for other operating conditions and temperatures, refer to page 276.
Service life	200 000 h
Failure criteria: Total failure Failure due to variation of parameters	 Short circuit or open circuit Capacitance change $\lvert\Delta C/C\rvert$ > 10 % Dissipation factor tan δ > 2 · upper limit value Insulation resistance R_{is} < 150 MΩ ($C_R \leq 0{,}33$ µF) or time constant $\tau = C_R \cdot R_{is}$ < 50 s ($C_R > 0{,}33$ µF)
DC test voltage	$1{,}4 \cdot V_R$, 2 s
Category voltage V_C Operation with dc voltage or ac voltage V_{rms} up to 60 Hz	$T \leq$ 85 °C: $V_C = 1{,}0 \cdot V_R$ or $1{,}0 \cdot V_{rms}$ $T \leq$ 100 °C: $V_C = 0{,}8 \cdot V_R$ or $0{,}8 \cdot V_{rms}$
Category voltage for short operating periods	$T \leq$ 100 °C: $V_C = 1{,}25 \cdot V_R$ or $1{,}0 \cdot V_{rms}$ for max. 2000 h $T \leq$ 125 °C: $V_C = 0{,}5 \cdot V_R$ or $0{,}5 \cdot V_{rms}$ for max. 1000 h

Dissipation factor tan δ (in 10^{-3}) at 20 °C (upper limit values)

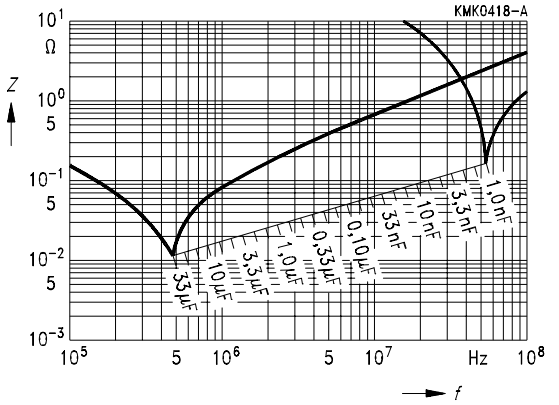
	$C_R \leq 0{,}1$ µF	0,1 µF < $C_R \leq 1$ µF	$C_R > 1$ µF
at 1 kHz	8	8	10
10 kHz	15	15	–
100 kHz	30	–	–

Insulation resistance R_{is} or time constant $\tau = C_R \cdot R_{is}$ at 20 °C, rel. humidity ≤ 65 % (minimum as-delivered values)

V_R	$C_R \leq 0{,}33$ µF	$C_R > 0{,}33$ µF
≤ 100 Vdc	3750 MΩ	1250 s
≥ 250 Vdc	7500 MΩ	2500 s

1) ... must be met after exposure to damp heat for 21 days.

Impedance Z versus frequency f (typical values)



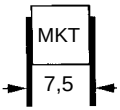
Pulse handling capability

Maximum permissible voltage change per unit of time for non-sinusoidal voltages (pulse, sawtooth).

V_R	Max. rate of voltage rise V_{pp}/τ in V/µs (for $V_{pp} = V_R$)				
	Lead spacing				
	7,5 mm	10 mm	15 mm	22,5 mm	27,5 mm
63 Vdc	120	–	–	–	–
100 Vdc	150	75	50	50	25
250 Vdc	200	150	100	100	50
400 Vdc	275	175	125	125	60
420 Vdc	–	–	–	–	60
630 Vdc	320	–	150	–	–

For $V_{pp} < V_R$, the permissible voltage rise rate value V_{pp}/τ may be multiplied by the factor V_R/V_{pp}. Also refer to the calculation example on page 250.

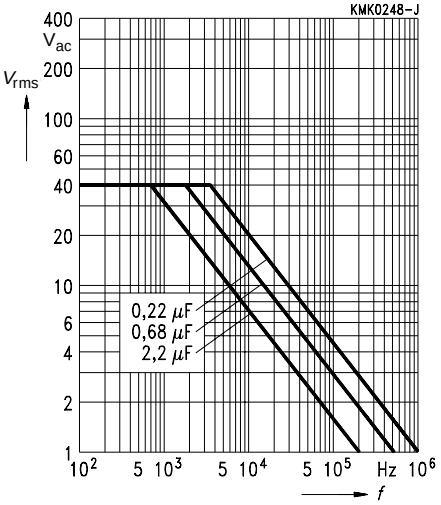
V_R	Pulse characteristic k_0 in $V^2/\mu s$ (for $V_{pp} \leq V_R$)				
	Lead spacing				
	7,5 mm	10 mm	15 mm	22,5 mm	27,5 mm
63 Vdc	15 000	–	–	–	–
100 Vdc	30 000	15 000	10 000	10 000	5 000
250 Vdc	100 000	75 000	50 000	50 000	25 000
400 Vdc	220 000	140 000	100 000	100 000	50 000
420 Vdc	–	–	–	–	50 000
63			190 000	–	–



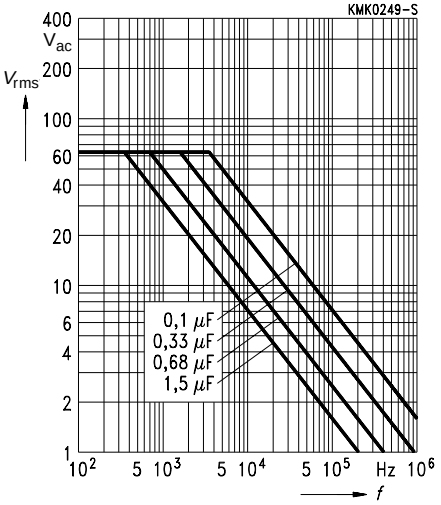
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 7,5 mm

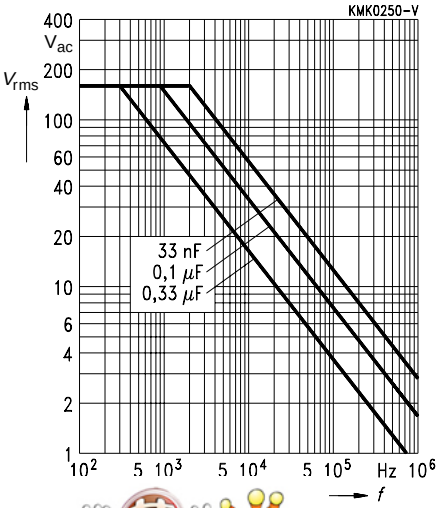
63 Vdc/ 40 Vac



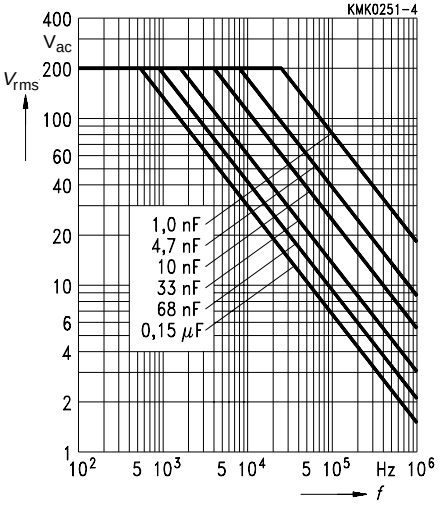
100 Vdc/ 63 Vac

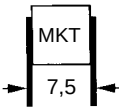


250Vdc/ 160Vac



400 Vdc/ 200 Vac





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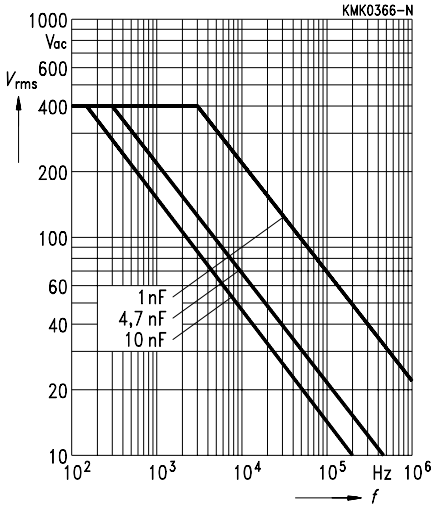
Permissible ac voltage V_{rms} versus frequency f
Lead spacing 7,5 mm

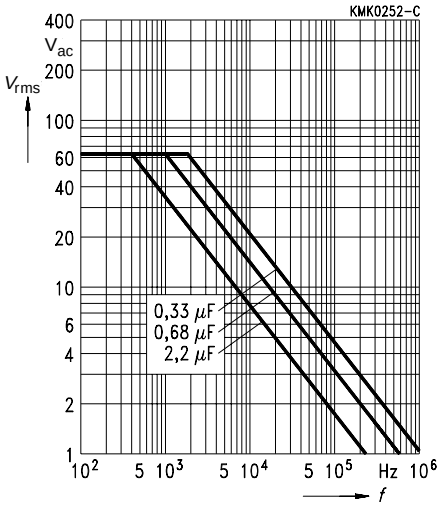
630 Vdc/ 400 Vac



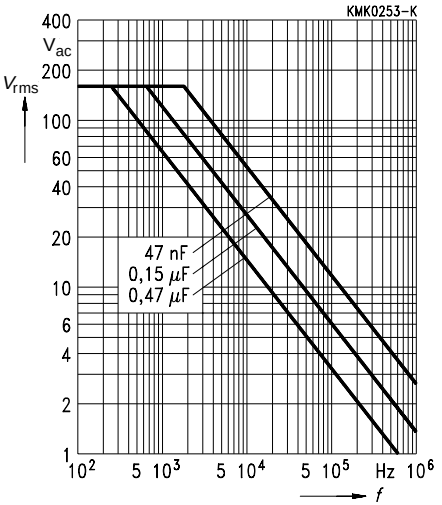
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 10 mm

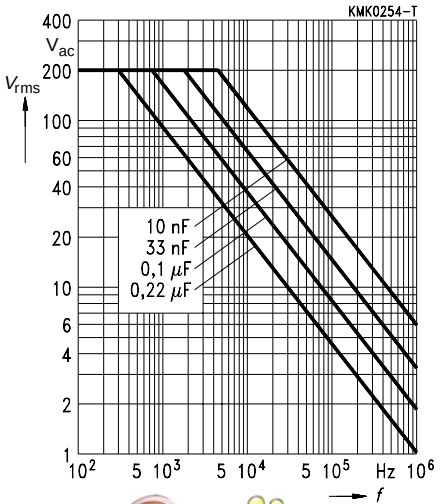
100 Vdc/ 63 Vac



250 Vdc/ 160 Vac



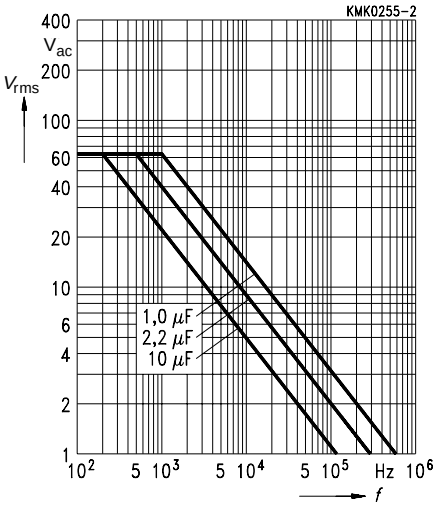
400 Vdc/ 200 Vac



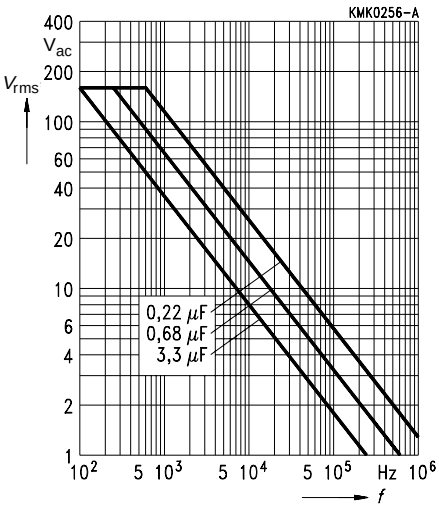
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 15 mm

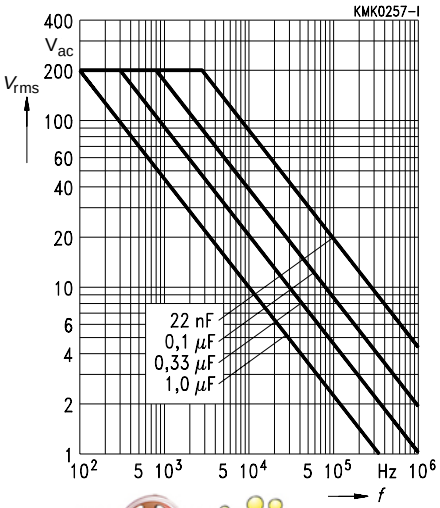
100 Vdc/63 Vac



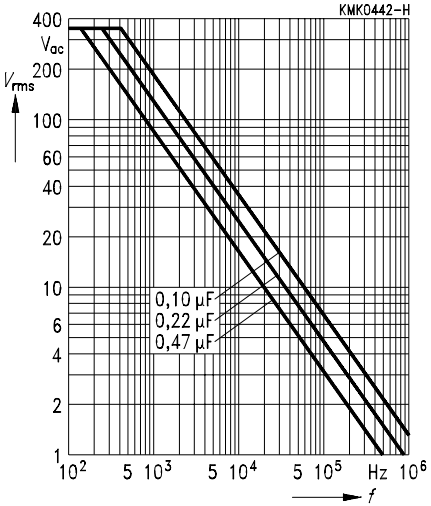
250 Vdc/ 160 Vac



400 Vdc/200 Vac



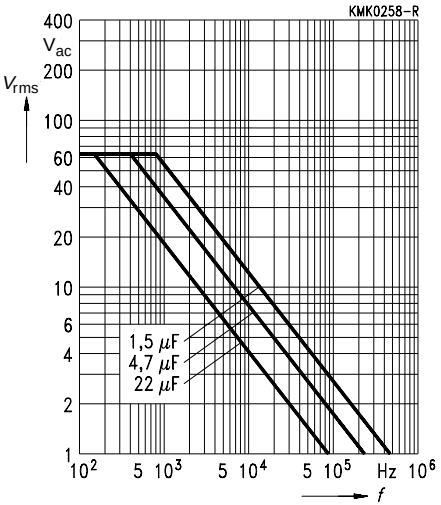
630 Vdc/350 Vac



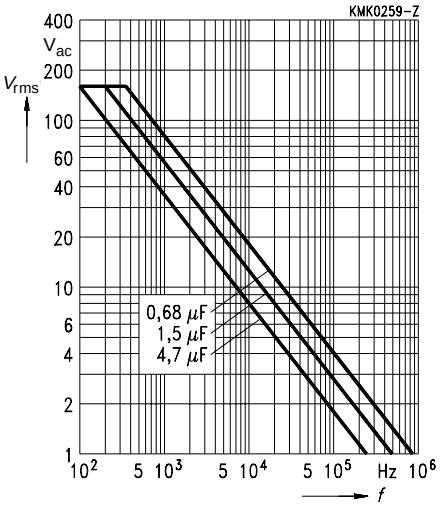
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 22,5 mm

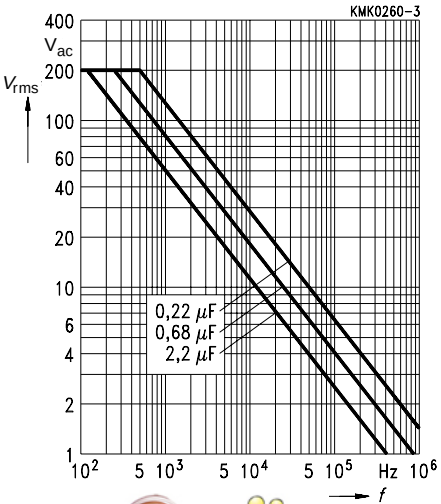
100 Vdc/ 63 Vac



250 Vdc/ 160 Vac



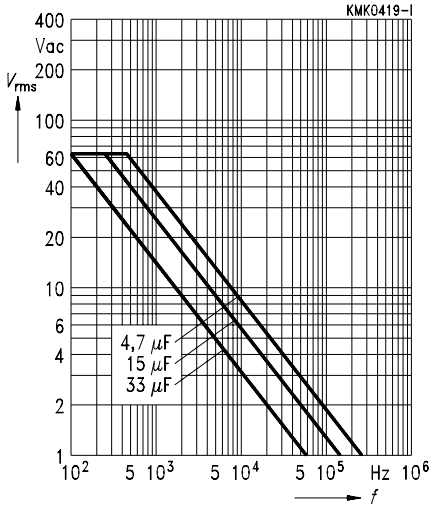
400 Vdc/ 200 Vac



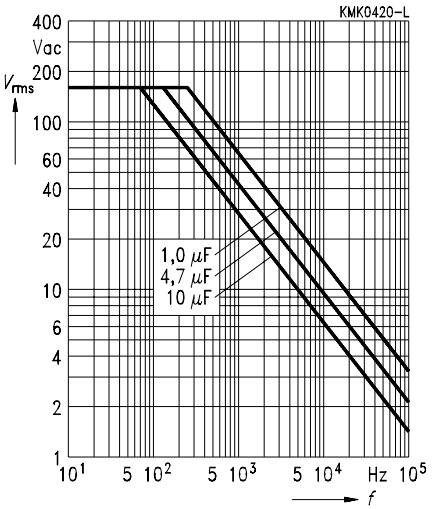
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 27,5 mm

100 Vdc/ 63 Vac



250 Vdc/ 160 Vac



400 Vdc/ 200 Vac