

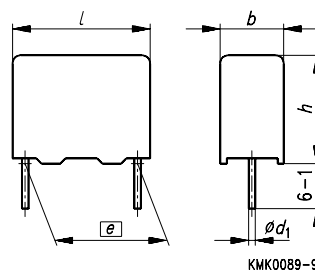


Metallized Polyester Film Capacitors (MKT)	B 32 520
Plastic Case	... B 32 529

Standard applications

Construction

- Dielectric: polyethylene terephthalate (polyester)
- Stacked-film technology for lead spacing 5 and 7,5 mm as well as for 10 and 15 mm (63 ... 400 Vdc)
- Plastic case (UL 94 V-0)
- Epoxy resin sealing



Dimensions in mm

Features

- High pulse strength
- High contact reliability

Terminals

- Parallel wire leads, tinned
- Also available with $(3,2 \pm 0,3)$ mm lead length
- Special lead lengths available upon request

Lead spacing	Diameter d_1	Type
$e \pm 0,4$		
5,0	0,5	B 32 529
7,5	0,5	B 32 520
10,0	$0,5^{1)}/0,6$	B 32 521
15,0	0,8	B 32 522

1) 0,5 mm for capacitor width $b = 4$ mm

Marking

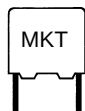
Manufacturer's logo,
lot number style and type (T5xx) for lead spacing ≥ 10 mm,
style (MKT) for lead spacing $\geq 7,5$ mm,
type (coded) for lead spacing 5 mm (B32529 $\hat{=}$ 1),
rated capacitance (coded),
capacitance tolerance (code letter),
rated dc voltage,
date of manufacture (coded)

Delivery mode

Bulk (untaped)

Taped (Ammo pack or reel)

For notes on taping, refer to chapter "Taping and packing", page 161



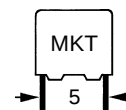
B 32 520 ...
B 32 529

Overview of available types

Lead spacing	5 mm					7,5 mm					10 mm					15 mm				
Type	B 32 529					B 32 520					B 32 521					B 32 522				
Page	11					15					17					18				
1,0 nF																				
1,5 nF																				
2,2 nF																				
3,3 nF																				
4,7 nF																				
6,8 nF																				
10 nF																				
15 nF																				
22 nF																				
33 nF																				
47 nF																				
68 nF																				
0,10 µF																				
0,15 µF																				
0,22 µF																				
0,33 µF																				
0,47 µF																				
0,68 µF																				
1,0 µF																				
1,5 µF																				
2,2 µF																				
3,3 µF																				
4,7 µF																				
6,8 µF																				
10 µF																				



B 32 529



Ordering codes and packing units, lead spacing 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
50 Vdc (32 Vac)	0,33 μ F	3,0 $\times$ 6,5 $\times$ 7,2	B32529-C5334-+***	2700	2400	2000
	0,47 μ F	3,5 $\times$ 8,0 $\times$ 7,2	B32529-C5474-+***	2300	2000	2000
	0,68 μ F	4,5 $\times$ 9,5 $\times$ 7,3	B32529-C5684-+***	1800	1500	1500
	1,0 μ F	4,5 $\times$ 9,5 $\times$ 7,3	B32529-C5105-+***	1800	1500	1500
	1,5 μ F	6,0 $\times$ 10,5 $\times$ 7,5	B32529-C5155-+***	1300	1100	1000
	2,2 μ F	7,8 $\times$ 13,0 $\times$ 7,8	B32529-D5225-+***	1000	800	1000
	3,3 μ F	7,8 $\times$ 13,0 $\times$ 7,8	B32529-D5335-+***	1000	800	1000
63 Vdc (40 Vac)	1,0 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C102-+***	3200	2800	2000
	1,5 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C152-+***	3200	2800	2000
	2,2 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C222-+***	3200	2800	2000
	3,3 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C332-+***	3200	2800	2000
	4,7 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C472-+***	3200	2800	2000
	6,8 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C682-+***	3200	2800	2000
	10 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C103-+***	3200	2800	2000
	15 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C153-+***	3200	2800	2000
	22 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C223-+***	3200	2800	2000
	33 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C333-+***	3200	2800	2000
	47 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C473-+***	3200	2800	2000
	68 nF	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C683-+***	3200	2800	2000
	0,10 μ F	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C104-+***	3200	2800	2000
	0,15 μ F	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C154-+***	3200	2800	2000
	0,22 μ F	2,5 $\times$ 6,5 $\times$ 7,2	B32529-C224-+***	3200	2800	2000
	0,33 μ F	3,0 $\times$ 6,5 $\times$ 7,2	B32529-C334-+***	2700	2400	2000
	0,47 μ F	3,5 $\times$ 8,0 $\times$ 7,2	B32529-C474-+***	2300	2000	2000
	0,68 μ F	4,5 $\times$ 9,5 $\times$ 7,3	B32529-C684-+***	1800	1500	1500
	1,0 μ F	4,5 $\times$ 9,5 $\times$ 7,3	B32529-C105-+***	1800	1500	1500
	1,5 μ F	6,0 $\times$ 10,5 $\times$ 7,5	B32529-C155-+***	1300	1100	1000
	2,2 μ F	7,8 $\times$ 13,0 $\times$ 7,8	B32529-D225-+***	1000	800	1000

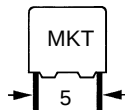
Capacitance tolerance: $\pm 20\% \hat{=}$ M, $\pm 10\% \hat{=}$ K, $\pm 5\% \hat{=}$ J

1) + Code letter for capacitance tolerance

*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32529-C5334-K3



B 32 529

Ordering codes and packing units, lead spacing 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
100 Vdc (63 Vac)	1,0 nF	2,5 × 6,5 × 7,2	B32529-C1102-+***	3200	2800	2000
	1,5 nF	2,5 × 6,5 × 7,2	B32529-C1152-+***	3200	2800	2000
	2,2 nF	2,5 × 6,5 × 7,2	B32529-C1222-+***	3200	2800	2000
	3,3 nF	2,5 × 6,5 × 7,2	B32529-C1332-+***	3200	2800	2000
	4,7 nF	2,5 × 6,5 × 7,2	B32529-C1472-+***	3200	2800	2000
	6,8 nF	2,5 × 6,5 × 7,2	B32529-C1682-+***	3200	2800	2000
	10 nF	2,5 × 6,5 × 7,2	B32529-C1103-+***	3200	2800	2000
	15 nF	2,5 × 6,5 × 7,2	B32529-C1153-+***	3200	2800	2000
	22 nF	2,5 × 6,5 × 7,2	B32529-C1223-+***	3200	2800	2000
	33 nF	2,5 × 6,5 × 7,2	B32529-C1333-+***	3200	2800	2000
	47 nF	2,5 × 6,5 × 7,2	B32529-C1473-+***	3200	2800	2000
	68 nF	2,5 × 6,5 × 7,2	B32529-C1683-+***	3200	2800	2000
	0,10 µF	2,5 × 6,5 × 7,2	B32529-C1104-+***	3200	2800	2000
	0,15 µF	3,0 × 6,5 × 7,2	B32529-C1154-+***	2700	2400	2000
	0,22 µF	3,5 × 8,0 × 7,2	B32529-C1224-+***	2300	2000	2000
	0,33 µF	3,5 × 8,0 × 7,2	B32529-C1334-+***	2300	2000	2000
	0,47 µF	4,5 × 9,5 × 7,3	B32529-C1474-+***	1800	1500	1500
	0,68 µF	6,0 × 10,5 × 7,5	B32529-C1684-+***	1300	1100	1000
	1,0 µF	7,8 × 13,0 × 7,8	B32529-D1105-+***	1000	800	1000

Capacitance tolerance: $\pm 20\% \hat{= M}$, $\pm 10\% \hat{= K}$, $\pm 5\% \hat{= J}$

1) + Code letter for capacitance tolerance

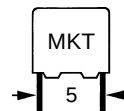
*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32529-C1102-K3



B 32 529



Ordering codes and packing units, lead spacing 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
250 Vdc (160 Vac)	1,0 nF	2,5 × 6,5 × 7,2	B32529-C3102-+***	3200	2800	2000
	1,5 nF	2,5 × 6,5 × 7,2	B32529-C3152-+***	3200	2800	2000
	2,2 nF	2,5 × 6,5 × 7,2	B32529-C3222-+***	3200	2800	2000
	3,3 nF	2,5 × 6,5 × 7,2	B32529-C3332-+***	3200	2800	2000
	4,7 nF	2,5 × 6,5 × 7,2	B32529-C3472-+***	3200	2800	2000
	6,8 nF	2,5 × 6,5 × 7,2	B32529-C3682-+***	3200	2800	2000
	10 nF	2,5 × 6,5 × 7,2	B32529-C3103-+***	3200	2800	2000
	15 nF	2,5 × 6,5 × 7,2	B32529-C3153-+***	3200	2800	2000
	22 nF	2,5 × 6,5 × 7,2	B32529-C3223-+***	3200	2800	2000
	33 nF	3,0 × 6,5 × 7,2	B32529-C3333-+***	2700	2400	2000
	47 nF	3,5 × 8,0 × 7,2	B32529-C3473-+***	2300	2000	2000
	68 nF	4,5 × 9,5 × 7,3	B32529-C3683-+***	1800	1500	1500
	0,10 µF	4,5 × 9,5 × 7,3	B32529-C3104-+***	1800	1500	1500
	0,15 µF	5,0 × 10,0 × 7,5	B32529-C3154-+***	1600	1400	1500
	0,22 µF	7,8 × 13,0 × 7,8	B32529-D3224-+***	1000	800	1000
	0,33 µF	7,8 × 13,0 × 7,8	B32529-C3334-+***	1000	800	1000
	0,47 µF	7,8 × 13,0 × 7,8	B32529-C3474-+***	1000	800	1000

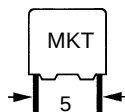
Capacitance tolerance: $\pm 20\% \hat{=} M, \pm 10\% \hat{=} K, \pm 5\% \hat{=} J$

1) + Code letter for capacitance tolerance

*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32529-C3102-K3



B 32 529

Ordering codes and packing units, lead spacing 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 × 6,5 × 7,2	B32529-C6102-+***	3200	2800	2000
	1,5 nF	2,5 × 6,5 × 7,2	B32529-C6152-+***	3200	2800	2000
	2,2 nF	2,5 × 6,5 × 7,2	B32529-C6222-+***	3200	2800	2000
	3,3 nF	2,5 × 6,5 × 7,2	B32529-C6332-+***	3200	2800	2000
	4,7 nF	2,5 × 6,5 × 7,2	B32529-C6472-+***	3200	2800	2000
	6,8 nF	2,5 × 6,5 × 7,2	B32529-C6682-+***	3200	2800	2000
	10 nF	3,0 × 6,5 × 7,2	B32529-C6103-+***	2700	2400	2000
	15 nF	3,5 × 8,0 × 7,2	B32529-C6153-+***	2300	2000	2000
	22 nF	4,5 × 9,5 × 7,3	B32529-B6223-+***	1800	1500	1500
	33 nF	5,0 × 10,0 × 7,5	B32529-B6333-+***	1600	1400	1500
	47 nF	6,0 × 10,5 × 7,5	B32529-B6473-+***	1300	1100	1000
	68 nF	7,8 × 13,0 × 7,8	B32529-D6683-+***	1000	800	1000
630 Vdc (400 Vac)	0,10 μF	7,8 × 13,0 × 7,8	B32529-D6104-+***	1000	800	1000
	1,0 nF	2,5 × 6,5 × 7,2	B32529-C8102-+***	3200	2800	2000
	1,5 nF	2,5 × 6,5 × 7,2	B32529-C8152-+***	3200	2800	2000
	2,2 nF	2,5 × 6,5 × 7,2	B32529-C8222-+***	3200	2800	2000
	3,3 nF	3,5 × 8,0 × 7,2	B32529-C8332-+***	2300	2000	2000
	4,7 nF	3,5 × 8,0 × 7,2	B32529-C8472-+***	2300	2000	2000
	6,8 nF	3,5 × 8,0 × 7,2	B32529-C8682-+***	2300	2000	2000
	10 nF	5,0 × 10,0 × 7,5	B32529-C8103-+***	1600	1400	1500

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

1) + Code letter for capacitance tolerance

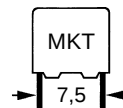
*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32529-C6102-K3



B 32 520



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)	68 nF	2,5 × 7,0 × 10,0	B32520-C683-+***	3200	2800	2500
	0,10 µF	2,5 × 7,0 × 10,0	B32520-C104-+***	3200	2800	2500
	0,15 µF	2,5 × 7,0 × 10,0	B32520-C154-+***	3200	2800	2500
	0,22 µF	2,5 × 7,0 × 10,0	B32520-C224-+***	3200	2800	2500
	0,33 µF	2,5 × 7,0 × 10,0	B32520-C334-+***	3200	2800	2500
	0,47 µF	3,0 × 8,0 × 10,0	B32520-C474-+***	2600	2400	2000
	0,68 µF	4,0 × 8,5 × 10,0	B32520-C684-+***	2000	1800	1500
	1,0 µF	5,0 × 10,5 × 10,0	B32520-C105-+***	1600	1400	1000
	1,5 µF	5,0 × 10,5 × 10,0	B32520-C155-+***	1600	1400	1000
	2,2 µF	6,0 × 12,0 × 10,3	B32520-C225-+***	1300	1100	750
100 Vdc (63 Vac)	47 nF	2,5 × 7,0 × 10,0	B32520-C1473-+***	3200	2800	2500
	68 nF	2,5 × 7,0 × 10,0	B32520-C1683-+***	3200	2800	2500
	0,10 µF	2,5 × 7,0 × 10,0	B32520-C1104-+***	3200	2800	2500
	0,15 µF	3,0 × 8,0 × 10,0	B32520-C1154-+***	2600	2400	2000
	0,22 µF	3,0 × 8,0 × 10,0	B32520-C1224-+***	2600	2400	2000
	0,33 µF	4,0 × 8,5 × 10,0	B32520-C1334-+***	2000	1800	1500
	0,47 µF	5,0 × 10,5 × 10,0	B32520-C1474-+***	1600	1400	1000
	0,68 µF	6,0 × 12,0 × 10,3	B32520-C1684-+***	1300	1100	750
	1,0 µF	6,0 × 12,0 × 10,3	B32520-C1105-+***	1300	1100	750
250 Vdc (160 Vac)	15 nF	2,5 × 7,0 × 10,0	B32520-C3153-+***	3200	2800	2500
	22 nF	2,5 × 7,0 × 10,0	B32520-C3223-+***	3200	2800	2500
	33 nF	2,5 × 7,0 × 10,0	B32520-C3333-+***	3200	2800	2500
	47 nF	2,5 × 7,0 × 10,0	B32520-C3473-+***	3200	2800	2500
	68 nF	3,0 × 8,0 × 10,0	B32520-C3683-+***	2600	2400	2000
	0,10 µF	4,0 × 8,5 × 10,0	B32520-C3104-+***	2000	1800	1500
	0,15 µF	5,0 × 10,5 × 10,0	B32520-C3154-+***	1600	1400	1000

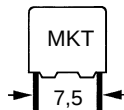
Capacitance tolerance: ± 20 % ≐ M, ± 10 % ≐ K, ± 5 % ≐ J

1) + Code letter for capacitance tolerance

*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32520-C683-K3



B 32 520

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 × 7,0 × 10,0	B32520-C6102-+***	3200	2800	2500
	1,5 nF	2,5 × 7,0 × 10,0	B32520-C6152-+***	3200	2800	2500
	2,2 nF	2,5 × 7,0 × 10,0	B32520-C6222-+***	3200	2800	2500
	3,3 nF	2,5 × 7,0 × 10,0	B32520-C6332-+***	3200	2800	2500
	4,7 nF	2,5 × 7,0 × 10,0	B32520-C6472-+***	3200	2800	2500
	6,8 nF	2,5 × 7,0 × 10,0	B32520-C6682-+***	3200	2800	2500
	10 nF	2,5 × 7,0 × 10,0	B32520-C6103-+***	3200	2800	2500
	15 nF	3,0 × 8,0 × 10,0	B32520-C6153-+***	2600	2400	2000
	22 nF	4,0 × 8,5 × 10,0	B32520-C6223-+***	2000	1800	1500
	33 nF	5,0 × 10,5 × 10,0	B32520-C6333-+***	1600	1400	1000
	47 nF	5,0 × 10,5 × 10,0	B32520-C6473-+***	1600	1400	1000
	68 nF	6,0 × 12,0 × 10,3	B32520-C6683-+***	1300	1100	750

Capacitance tolerance: $\pm 20\% \hat{=} M, \pm 10\% \hat{=} K, \pm 5\% \hat{=} J$

1) + Code letter for capacitance tolerance

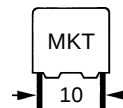
*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32520-C6102-K3



B 32 521



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
63 Vdc (40 Vac)	0,47 μ F	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C474-+***	1000	1700	1000
	0,68 μ F	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C684-+***	1000	1700	1000
	1,0 μ F	4,0 $\times$ 9,0 $\times$ 13,0	B32521-C105-+***	1000	1700	1000
	1,5 μ F	5,0 $\times$ 11,0 $\times$ 13,0	B32521-C155-+***	830	1300	1000
	2,2 μ F	5,0 $\times$ 11,0 $\times$ 13,0	B32521-C225-+***	830	1300	1000
	3,3 μ F	6,0 $\times$ 12,0 $\times$ 13,0	B32521-C335-+***	680	1100	1000
100 Vdc (63 Vac)	0,10 μ F	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C1104-+***	1000	1700	1000
	0,15 μ F	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C1154-+***	1000	1700	1000
	0,22 μ F	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C1224-+***	1000	1700	1000
	0,33 μ F	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C1334-+***	1000	1700	1000
	0,47 μ F	4,0 $\times$ 9,0 $\times$ 13,0	B32521-C1474-+***	1000	1700	1000
	0,68 μ F	5,0 $\times$ 11,0 $\times$ 13,0	B32521-C1684-+***	830	1300	1000
	1,0 μ F	6,0 $\times$ 12,0 $\times$ 13,0	B32521-C1105-+***	680	1100	1000
250 Vdc (160 Vac)	33 nF	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C3333-+***	1000	1700	1000
	47 nF	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C3473-+***	1000	1700	1000
	68 nF	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C3683-+***	1000	1700	1000
	0,10 μ F	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C3104-+***	1000	1700	1000
	0,15 μ F	4,0 $\times$ 9,0 $\times$ 13,0	B32521-C3154-+***	1000	1700	1000
	0,22 μ F	5,0 $\times$ 11,0 $\times$ 13,0	B32521-C3224-+***	830	1300	1000
	0,33 μ F	5,0 $\times$ 11,0 $\times$ 13,0	B32521-C3334-+***	830	1300	1000
	0,47 μ F	6,0 $\times$ 12,0 $\times$ 13,0	B32521-C3474-+***	680	1100	1000
400 Vdc (200 Vac)	10 nF	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C6103-+***	1000	1700	1000
	15 nF	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C6153-+***	1000	1700	1000
	22 nF	4,0 $\times$ 7,0 $\times$ 13,0	B32521-C6223-+***	1000	1700	1000
	33 nF	4,0 $\times$ 9,0 $\times$ 13,0	B32521-C6333-+***	1000	1700	1000
	47 nF	5,0 $\times$ 11,0 $\times$ 13,0	B32521-C6473-+***	830	1300	1000
	68 nF	5,0 $\times$ 11,0 $\times$ 13,0	B32521-C6683-+***	830	1300	1000
	0,10 μ F	6,0 $\times$ 12,0 $\times$ 13,0	B32521-C6104-+***	680	1100	1000

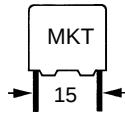
Capacitance tolerance: $\pm 20\% \hat{=}$ M, $\pm 10\% \hat{=}$ K, $\pm 5\% \hat{=}$ J

1) + Code letter for capacitance tolerance

*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32521-C474-K3



B 32 522

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
63 Vdc (40 Vac)	0,68 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C684-+***	1170	1300	1000
	1,0 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C105-+***	1170	1300	1000
	1,5 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C155-+***	1170	1300	1000
	2,2 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C225-+***	1170	1300	1000
	3,3 μ F	6,0 $\times$ 11,0 $\times$ 18,0	B32522-C335-+***	960	1100	1000
	4,7 μ F	7,0 $\times$ 12,5 $\times$ 18,0	B32522-C475-+***	830	900	1000
	6,8 μ F	8,5 $\times$ 14,5 $\times$ 18,0	B32522-C685-+***	680	700	500
	10 μ F	9,0 $\times$ 17,5 $\times$ 18,0	B32522-C106-+***	640	700	500
100 Vdc (63 Vac)	0,33 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C1334-+***	1170	1300	1000
	0,47 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C1474-+***	1170	1300	1000
	0,68 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C1684-+***	1170	1300	1000
	1,0 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C1105-+***	1170	1300	1000
	1,5 μ F	6,0 $\times$ 11,0 $\times$ 18,0	B32522-C1155-+***	960	1100	1000
	2,2 μ F	7,0 $\times$ 12,5 $\times$ 18,0	B32522-C1225-+***	830	900	1000
	3,3 μ F	8,5 $\times$ 14,5 $\times$ 18,0	B32522-C1335-+***	680	700	500
	4,7 μ F	9,0 $\times$ 17,5 $\times$ 18,0	B32522-C1475-+***	640	700	500
250 Vdc (160 Vac)	0,10 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C3104-+***	1170	1300	1000
	0,15 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C3154-+***	1170	1300	1000
	0,22 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C3224-+***	1170	1300	1000
	0,33 μ F	5,0 $\times$ 10,5 $\times$ 18,0	B32522-C3334-+***	1170	1300	1000
	0,47 μ F	6,0 $\times$ 11,0 $\times$ 18,0	B32522-C3474-+***	960	1100	1000
	0,68 μ F	7,0 $\times$ 12,5 $\times$ 18,0	B32522-C3684-+***	830	900	1000
	1,0 μ F	8,5 $\times$ 14,5 $\times$ 18,0	B32522-C3105-+***	680	700	500
	1,5 μ F	9,0 $\times$ 17,5 $\times$ 18,0	B32522-C3155-+***	640	700	500

Capacitance tolerance: $\pm 20\% \hat{=}$ M, $\pm 10\% \hat{=}$ K, $\pm 5\% \hat{=}$ J

1) + Code letter for capacitance tolerance

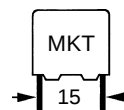
*** Code number for packing: Ammo pack = 289, reel = 189

The ordering code for untaped components ends after the tolerance code letter.

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32522-C684-K3



B 32 522



Ordering codes and packing units, lead spacing 15 mm

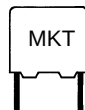
V_R (V_{rms} , $f \leq 60$ Hz)	C_R	Maximum dimensions $b \times h \times l$ (mm)	Ordering code ¹⁾	Packing units (pcs)		
				Ammo pack	Reel	Untaped
400 Vdc (200 Vac)	47 nF	5,0 × 10,5 × 18,0	B32522-C6473-+***	1170	1300	1000
	68 nF	5,0 × 10,5 × 18,0	B32522-C6683-+***	1170	1300	1000
	0,10 µF	5,0 × 10,5 × 18,0	B32522-C6104-+***	1170	1300	1000
	0,15 µF	6,0 × 11,0 × 18,0	B32522-C6154-+***	960	1100	1000
	0,22 µF	7,0 × 12,5 × 18,0	B32522-C6224-+***	830	900	1000
	0,33 µF	8,5 × 14,5 × 18,0	B32522-C6334-+***	680	700	500

Capacitance tolerance: $\pm 20\%$ $\hat{=}$ M, $\pm 10\%$ $\hat{=}$ K, $\pm 5\%$ $\hat{=}$ J

1) + Code letter for capacitance tolerance

*** Code number for packing: Ammo pack = 289, reel = 189

For capacitors with 3,2 mm lead length, append code number "3" to the tolerance code, e.g.: B32522-C6473-K3



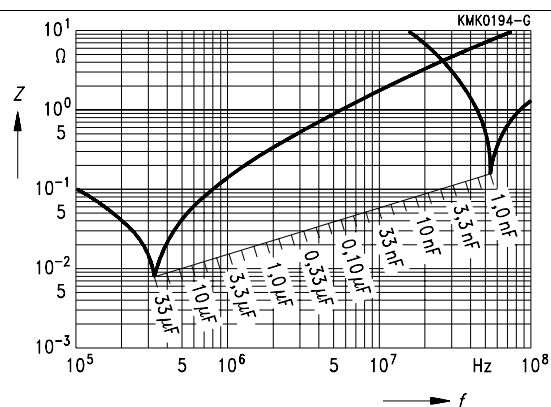
B 32 520...

B 32 529

Technical data

Climatic category in accordance with IEC 60068-1	55/100/56		
Lower category temperature $T_{\min}$	– 55 °C		
Upper category temperature $T_{\max}$	+ 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	Capacitance change $ \Delta C/C $	≤ 5 %	
	Dissipation factor change $\Delta \tan \delta$	≤ 5 · 10 ^{–3} (at 1 kHz)	
	Insulation resistance R_{IS}	≥ 50 % of minimum	
	or time constant $\tau = C_R \cdot R_{\text{IS}}$	as-delivered values	
Reliability:			
Reference conditions	0,5 · V_R ; 40 °C		
Failure rate	1 · 10 ^{–9} /h = 1 fit		
Service life	200 000 h		
Failure criteria:			
Total failure	Short circuit or open circuit		
Failure due to variation of parameters	Capacitance change $ \Delta C/C $	> 10 %	
	Dissipation factor $\tan \delta$	> 2 · upper limit value	
	Insulation resistance R_{IS}	< 150 MΩ ($C_R \leq 0,33 \mu\text{F}$)	
	or time constant $\tau = C_R \cdot R_{\text{IS}}$	< 50 s ($C_R > 0,33 \mu\text{F}$)	
DC test voltage	1,4 · V_R , 2 s		
Category voltage V_C	$T \leq 85 \text{ °C}$	$V = 1,25 \cdot V_C$	$V_{C,\text{rms}} = 1,0 \cdot V_{\text{rms}}$
Operation with dc voltage or ac voltage V_{rms} up to 60 Hz	$T \leq 100 \text{ °C}$	$V_C = 0,8 \cdot V_R$	$V_{C,\text{rms}} = 0,8 \cdot V_{\text{rms}}$
Operating voltage for short operating periods	$T \leq 85 \text{ °C}$	$V = 1,25 \cdot V_C$, max. 2000 h	$V = 1,0 \cdot V_{C,\text{rms}}$, max. 2000 h
	$T \leq 100 \text{ °C}$	$V = 1,25 \cdot V_C$, max. 2000 h	$V = 1,0 \cdot V_{C,\text{rms}}$, max. 2000 h
	$T \leq 125 \text{ °C}$	$V = 0,5 \cdot V_R$, max. 1000 h	$V = 0,5 \cdot V_{\text{rms}}$, max. 1000 h
Dissipation factor $\tan \delta$ (in 10 ^{–3}) at 20 °C (upper limit values)		$C_R \leq 0,1 \mu\text{F}$	$0,1 \mu\text{F} < C_R \leq 1 \mu\text{F}$
	at 1 kHz	8	10
	10 kHz	15	20
	100 kHz	30	–
Insulation resistance R_{IS} or time constant $\tau = C_R \cdot R_{\text{IS}}$ at 20 °C, rel. humidity ≤ 65 % (minimum as-delivered values)	V_R	$C_R \leq 0,33 \mu\text{F}$	$C_R > 0,33 \mu\text{F}$
	≤ 100 Vdc	3750 MΩ	1250 s
	≥ 250 Vdc	7500 MΩ	2500 s

Impedance Z
versus
frequency f
(typical values)



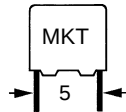
Pulse handling capability

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/ μ s (for $V_{pp} = V_R$)			
	Lead spacing			
	5 mm	7,5 mm	10 mm	15 mm
50 Vdc	200	—	—	—
63 Vdc	250	120	50	30
100 Vdc	300	150	75	50
250 Vdc	400	200	150	100
400 Vdc	600	275	175	125
630 Vdc	800	—	—	—

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 in chapter "General technical information", page 169.

V_R	Pulse characteristic k_0 in V ² / μ s (for $V_{pp} \leq V_R$)			
	Lead spacing			
	5 mm	7,5 mm	10 mm	15 mm
50 Vdc	20 000	—	—	—
63 Vdc	30 000	15 000	6 300	3 800
100 Vdc	60 000	30 000	15 000	10 000
250 Vdc	200 000	100 000	75 000	50 000
400 Vdc	500 000	220 000	140 000	100 000
630 Vdc	1 000 000	—	—	—

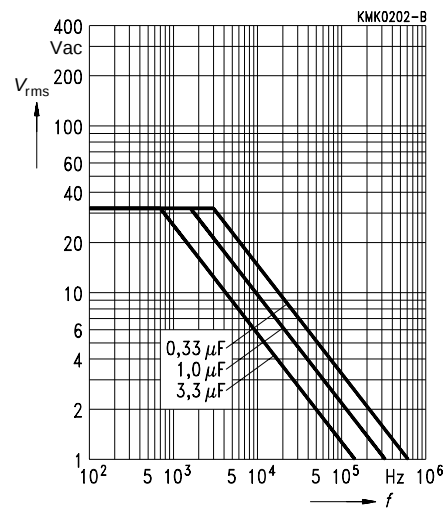


B 32 529

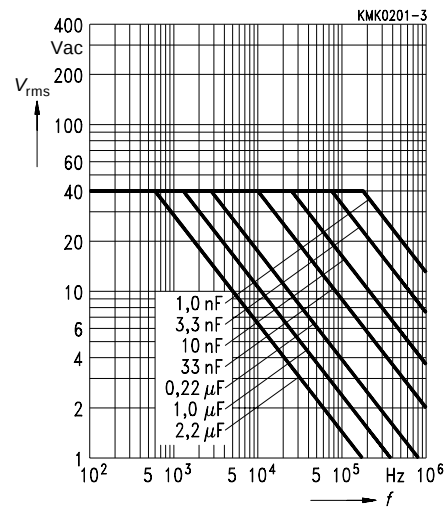
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 5 mm

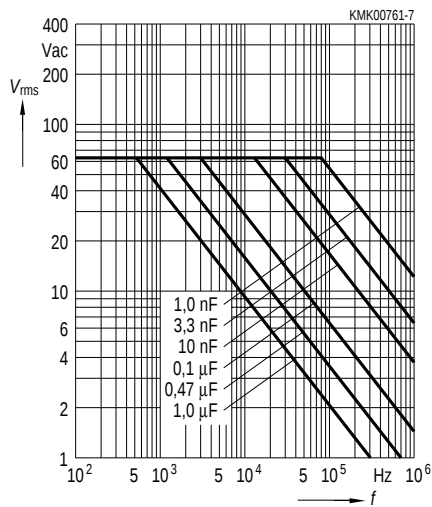
50 Vdc/ 32 Vac



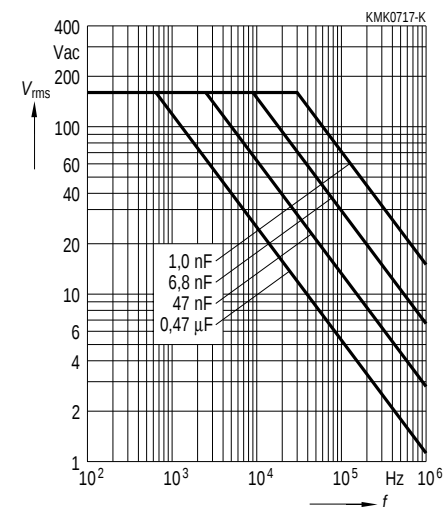
63 Vdc/ 40 Vac

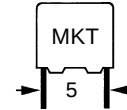


100 Vdc/ 63 Vac



250 Vdc/ 160 Vac

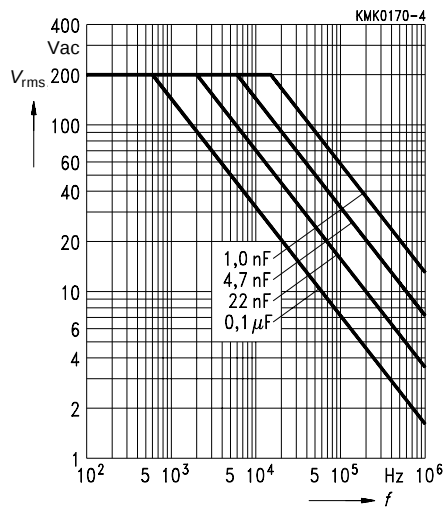




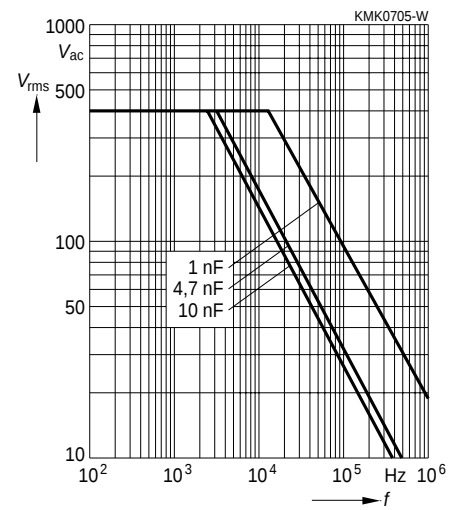
Permissible ac voltage V_{rms} versus frequency f

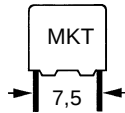
Lead spacing 5 mm

400 Vdc/ 200 Vac



630 Vdc/ 400 Vac



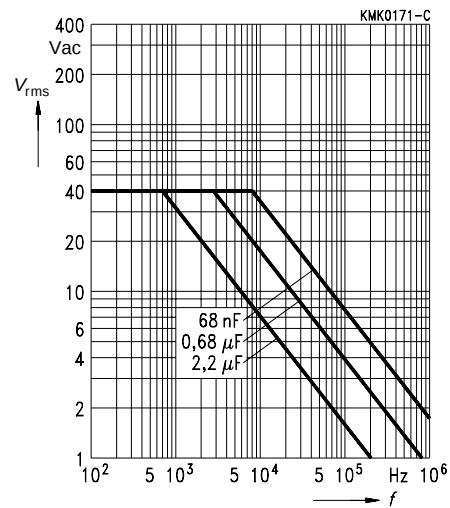


B 32 520

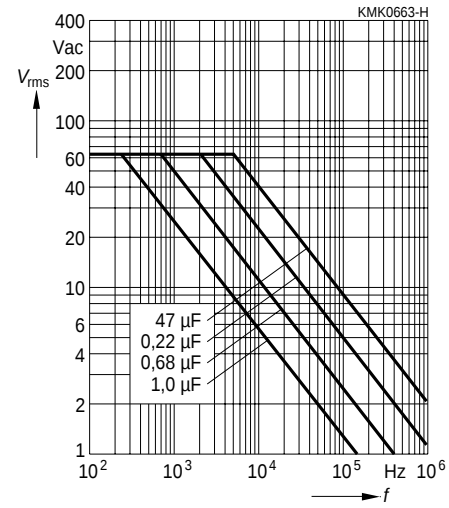
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 7,5 mm

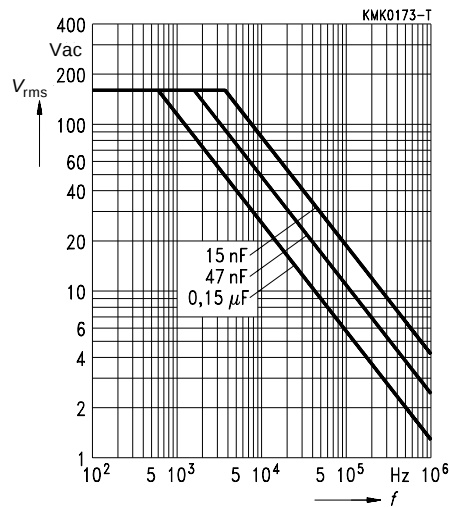
63 Vdc/ 40 Vac



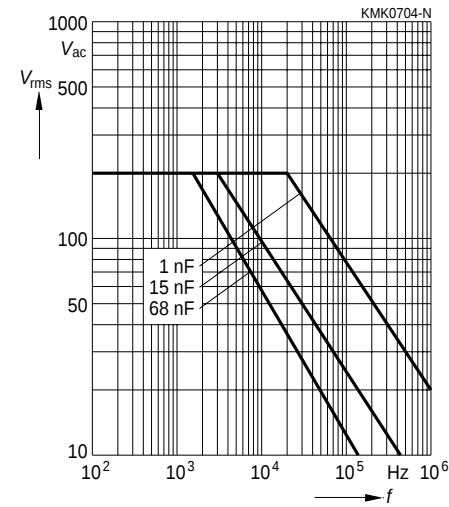
100 Vdc/ 63 Vac

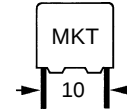


250 Vdc/ 160 Vac



400 Vdc/ 200 Vac

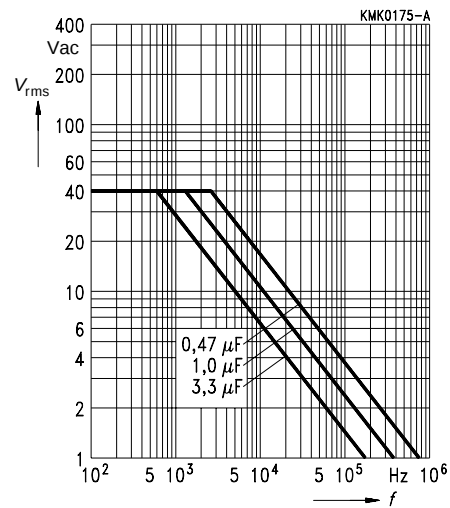




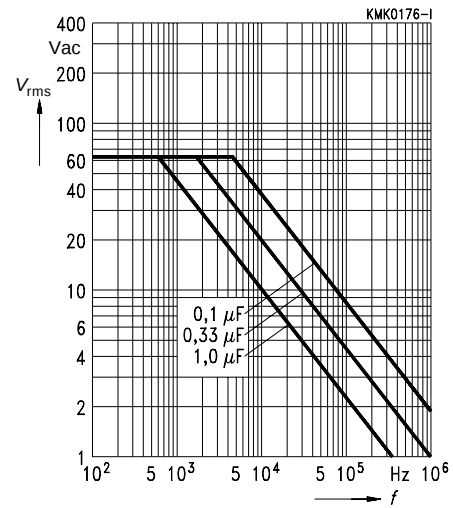
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 10 mm

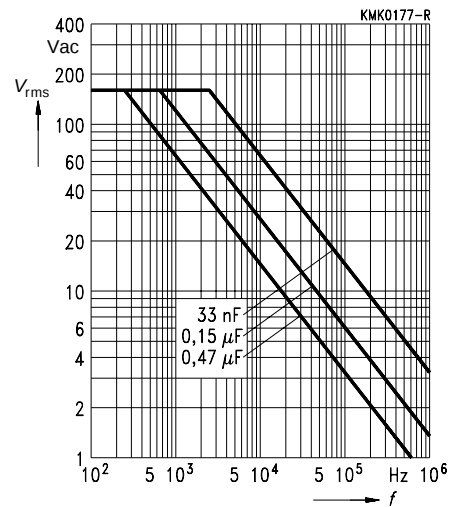
63 Vdc/ 40 Vac



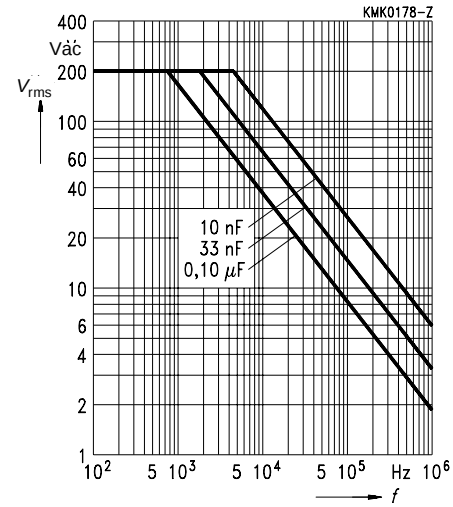
100 Vdc/ 63 Vac

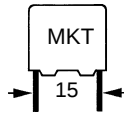


250 Vdc/ 160 Vac



400 Vdc/ 200 Vac



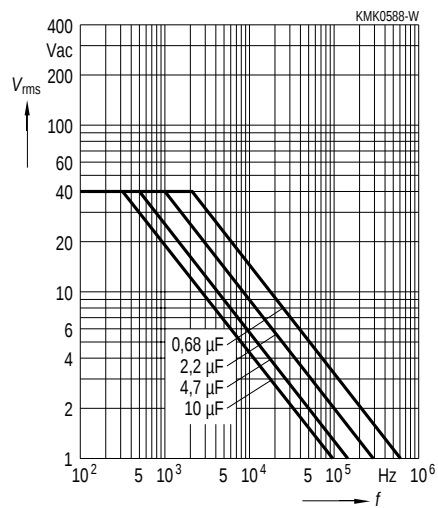


B 32 522

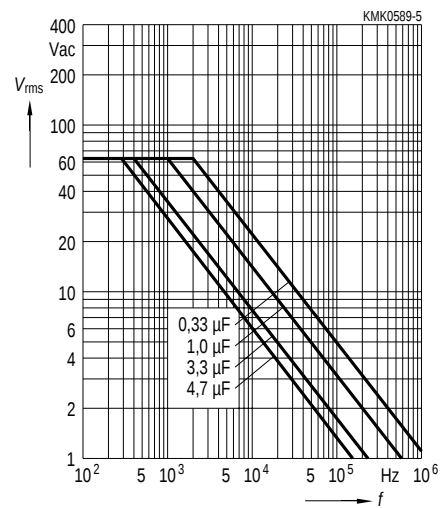
Permissible ac voltage V_{rms} versus frequency f

Lead spacing 15 mm

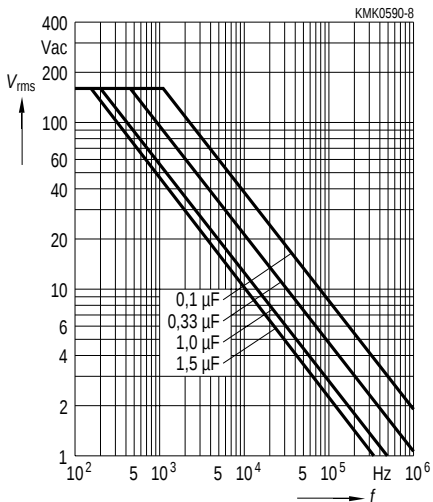
63 Vdc/ 40 Vac



100 Vdc/ 63 Vac



250 Vdc/ 160 Vac



400 Vdc/ 200 Vac

