



Film Capacitors

Metallized Polyester Film Capacitors (MKT)

Series/Type: B32520 ... B32529

Date: October 2011

Typical applications

- Blocking
- Coupling, decoupling
- Bypassing
- RFI for automotive

Climatic

- Max. operating temperature: 125 °C
- Climatic category (IEC 60068-1): 55/125/56

Construction

- Dielectric: polyethylene terephthalate (polyester, PET)
- Stacked-film technology for lead spacing 5 to 15 mm
= code C, D or E in digit 7 of ordering code
- Wound capacitor technology for lead spacing 10 to 37.5 mm
= code N, Q or R in digit 7 of ordering code
- Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Features

- High pulse strength
- High contact reliability

Terminals

- Parallel wire leads, lead-free tinned
- Special lead lengths available on request

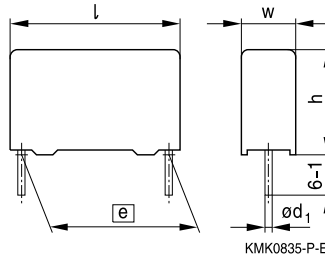
Marking

Manufacturer's logo,
rated capacitance (coded), cap. tolerance (code letter),
rated DC voltage, date of manufacture (coded),
coded type ("1") for lead spacing 5 mm,
series and lot number for lead spacing ≥ 10 mm

Delivery mode

Bulk (untaped)
Taped (Ammo pack or reel)
For notes on taping, refer to chapter "Taping and packing".

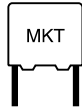
Dimensional drawing



Dimensions in mm

Lead spacing $e \pm 0.4$	Lead diameter d_1	Type
5.0	0.5	B32529
7.5	0.5	B32520
10.0	0.6 ¹⁾	B32521
15.0	0.8	B32522
22.5	0.8	B32523
27.5	0.8	B32524
37.5	1.0	B32526

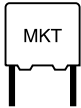
1) 0.5 mm for capacitor width $w = 4$ mm



Overview of available types

Lead spacing	5.0 mm					7.5 mm				10.0 mm				
Type	B32529					B32520				B32521				
Page	6					10				12				
Technology	s	s	s	s	s	s	s	s	s	s	s	s	s	s
V_R (V DC)	63	100	250	400	630	63	100	250	400	63	100	250	400	630
V_{RMS} (V AC)	40	63	160	200	400	40	63	160	200	40	63	160	200	200
C_R (μF)														
0.0010														
0.0015														
0.0022														
0.0033														
0.0047														
0.0068														
0.010														
0.015														
0.022														
0.033														
0.047														
0.068														
0.10														
0.15														
0.22														
0.33														
0.47														
0.68														
1.0														
1.5														
2.2														
3.3														
4.7														

Technology: s = Stacked-film technology / w = Wound capacitor technology



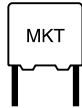
B32520 ... B32529

General purpose (stacked/wound)

Overview of available types

Lead spacing	15.0 mm						22.5 mm						27.5 mm				
Type	B32522						B32523						B32524				
Page	14						17						18				
Technology	s	s/w	s/w	s	w	s	w	w	w	w	w	w	w	w	w	w	w
V_R (V DC)	63	100	250	400	450	630	63	100	250	400	630	63	100	250	400	630	
V_{RMS} (V AC)	40	63	160	200	200	200	40	63	160	200	200	40	63	160	200	220	
C_R (μF)																	
0.047																	
0.068																	
0.10																	
0.15																	
0.22																	
0.33																	
0.47																	
0.68																	
1.0																	
1.5																	
2.2																	
3.3																	
4.7																	
6.8																	
10																	
15																	
22																	
33																	
47																	
68																	
100																	

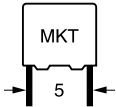
Technology: s = Stacked-film technology / w = Wound capacitor technology



Overview of available types

Lead spacing	37.5 mm			
Type	B32526			
Page	20			
Technology	w	w	w	w
V_R (V DC)	63	100	250	400
V_{RMS} (V AC)	40	63	160	200
C_R (μF)	NEW	NEW	NEW	NEW
3.3				
4.7				
5.6				
6.8				
8.2				
10				
15				
22				
33				
47				
56				
68				
82				
100				
150				
220				

Technology: s = Stacked-film technology / w = Wound capacitor technology


B32529
General purpose (stacked)
Ordering codes and packing units (lead spacing 5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
63	40	0.0010	$2.5 \times 6.5 \times 7.2$	B32529C0102+***	12800	11200	8000
		0.0015	$2.5 \times 6.5 \times 7.2$	B32529C0152+***	12800	11200	8000
		0.0022	$2.5 \times 6.5 \times 7.2$	B32529C0222+***	12800	11200	8000
		0.0033	$2.5 \times 6.5 \times 7.2$	B32529C0332+***	12800	11200	8000
		0.0047	$2.5 \times 6.5 \times 7.2$	B32529C0472+***	12800	11200	8000
		0.0068	$2.5 \times 6.5 \times 7.2$	B32529C0682+***	12800	11200	8000
		0.010	$2.5 \times 6.5 \times 7.2$	B32529C0103+***	12800	11200	8000
		0.015	$2.5 \times 6.5 \times 7.2$	B32529C0153+***	12800	11200	8000
		0.022	$2.5 \times 6.5 \times 7.2$	B32529C0223+***	12800	11200	8000
		0.033	$2.5 \times 6.5 \times 7.2$	B32529C0333+***	12800	11200	8000
		0.047	$2.5 \times 6.5 \times 7.2$	B32529C0473+***	12800	11200	8000
		0.068	$2.5 \times 6.5 \times 7.2$	B32529C0683+***	12800	11200	8000
		0.10	$2.5 \times 6.5 \times 7.2$	B32529C0104+***	12800	11200	8000
		0.15	$2.5 \times 6.5 \times 7.2$	B32529C0154+***	12800	11200	8000
		0.22	$2.5 \times 6.5 \times 7.2$	B32529C0224+***	12800	11200	8000
		0.33	$3.0 \times 6.5 \times 7.2$	B32529C0334+***	10800	9600	8000
		0.47	$3.5 \times 8.0 \times 7.2$	B32529C0474+***	9200	8000	8000
		0.68	$4.5 \times 9.5 \times 7.3$	B32529C0684+***	7200	6000	6000
		1.0	$4.5 \times 9.5 \times 7.3$	B32529C0105+***	7200	6000	6000
		1.5	$6.0 \times 10.5 \times 7.5$	B32529C0155+***	5200	4400	4000
		2.2	$7.8 \times 13.0 \times 7.8$	B32529D0225+***	4000	3200	4000
		3.3	$7.8 \times 13.0 \times 7.8$	B32529D0335+***	4000	3200	4000
		4.7	$7.8 \times 13.0 \times 7.8$	B32529D0475M***	4000	3200	4000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

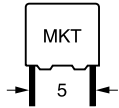
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


Ordering codes and packing units (lead spacing 5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
100	63	0.0010	$2.5 \times 6.5 \times 7.2$	B32529C1102+***	12800	11200	8000
		0.0015	$2.5 \times 6.5 \times 7.2$	B32529C1152+***	12800	11200	8000
		0.0022	$2.5 \times 6.5 \times 7.2$	B32529C1222+***	12800	11200	8000
		0.0033	$2.5 \times 6.5 \times 7.2$	B32529C1332+***	12800	11200	8000
		0.0047	$2.5 \times 6.5 \times 7.2$	B32529C1472+***	12800	11200	8000
		0.0068	$2.5 \times 6.5 \times 7.2$	B32529C1682+***	12800	11200	8000
		0.010	$2.5 \times 6.5 \times 7.2$	B32529C1103+***	12800	11200	8000
		0.015	$2.5 \times 6.5 \times 7.2$	B32529C1153+***	12800	11200	8000
		0.022	$2.5 \times 6.5 \times 7.2$	B32529C1223+***	12800	11200	8000
		0.033	$2.5 \times 6.5 \times 7.2$	B32529C1333+***	12800	11200	8000
		0.047	$2.5 \times 6.5 \times 7.2$	B32529C1473+***	12800	11200	8000
		0.068	$2.5 \times 6.5 \times 7.2$	B32529C1683+***	12800	11200	8000
		0.10	$2.5 \times 6.5 \times 7.2$	B32529C1104+***	12800	11200	8000
		0.15	$3.0 \times 6.5 \times 7.2$	B32529C1154+***	10800	9600	8000
		0.22	$3.5 \times 8.0 \times 7.2$	B32529C1224+***	9200	8000	8000
		0.33	$3.5 \times 8.0 \times 7.2$	B32529C1334+***	9200	8000	8000
		0.47	$4.5 \times 9.5 \times 7.3$	B32529C1474+***	7200	6000	6000
		0.68	$6.0 \times 10.5 \times 7.5$	B32529C1684+***	5200	4400	4000
		1.0	$7.8 \times 13.0 \times 7.8$	B32529D1105+***	4000	3200	4000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

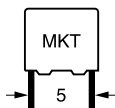
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


B32529
General purpose (stacked)
Ordering codes and packing units (lead spacing 5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
250	160	0.0010	$2.5 \times 6.5 \times 7.2$	B32529C3102+***	12800	11200	8000
		0.0015	$2.5 \times 6.5 \times 7.2$	B32529C3152+***	12800	11200	8000
		0.0022	$2.5 \times 6.5 \times 7.2$	B32529C3222+***	12800	11200	8000
		0.0033	$2.5 \times 6.5 \times 7.2$	B32529C3332+***	12800	11200	8000
		0.0047	$2.5 \times 6.5 \times 7.2$	B32529C3472+***	12800	11200	8000
		0.0068	$2.5 \times 6.5 \times 7.2$	B32529C3682+***	12800	11200	8000
		0.010	$2.5 \times 6.5 \times 7.2$	B32529C3103+***	12800	11200	8000
		0.015	$2.5 \times 6.5 \times 7.2$	B32529C3153+***	12800	11200	8000
		0.022	$2.5 \times 6.5 \times 7.2$	B32529C3223+***	12800	11200	8000
		0.033	$3.0 \times 6.5 \times 7.2$	B32529C3333+***	10800	9600	8000
		0.047	$3.5 \times 8.0 \times 7.2$	B32529C3473+***	9200	8000	8000
		0.068	$4.5 \times 9.5 \times 7.3$	B32529C3683+***	7200	6000	6000
		0.10	$4.5 \times 9.5 \times 7.3$	B32529C3104+***	7200	6000	6000
		0.15	$5.0 \times 10.0 \times 7.5$	B32529C3154+***	6400	5600	6000
		0.22	$7.8 \times 13.0 \times 7.8$	B32529D3224+***	4000	3200	4000
		0.33	$7.8 \times 13.0 \times 7.8$	B32529C3334+***	4000	3200	4000
		0.47	$7.8 \times 13.0 \times 7.8$	B32529C3474+***	4000	3200	4000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

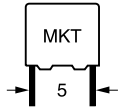
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)



Ordering codes and packing units (lead spacing 5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
400	200	0.0010	$2.5 \times 6.5 \times 7.2$	B32529C6102+***	12800	11200	8000
		0.0015	$2.5 \times 6.5 \times 7.2$	B32529C6152+***	12800	11200	8000
		0.0022	$2.5 \times 6.5 \times 7.2$	B32529C6222+***	12800	11200	8000
		0.0033	$2.5 \times 6.5 \times 7.2$	B32529C6332+***	12800	11200	8000
		0.0047	$2.5 \times 6.5 \times 7.2$	B32529C6472+***	12800	11200	8000
		0.0068	$2.5 \times 6.5 \times 7.2$	B32529C6682+***	12800	11200	8000
		0.010	$3.0 \times 6.5 \times 7.2$	B32529E6103+***	10800	9600	8000
		0.015	$3.0 \times 6.5 \times 7.2$	B32529E6153+***	10800	9600	8000
		0.022	$3.5 \times 8.0 \times 7.2$	B32529E6223+***	9200	8000	8000
		0.033	$4.5 \times 9.5 \times 7.3$	B32529E6333+***	7200	6000	6000
		0.047	$4.5 \times 9.5 \times 7.3$	B32529E6473+***	7200	6000	6000
		0.068	$6.0 \times 10.5 \times 7.5$	B32529E6683+***	5200	4400	4000
		0.10	$7.8 \times 13.0 \times 7.8$	B32529E6104+***	4000	3200	4000
		0.15	$7.8 \times 13.0 \times 7.8$	B32529E6154+***	4000	3200	4000
630	400	0.0010	$2.5 \times 6.5 \times 7.2$	B32529C8102+***	12800	11200	8000
		0.0015	$2.5 \times 6.5 \times 7.2$	B32529C8152+***	12800	11200	8000
		0.0022	$2.5 \times 6.5 \times 7.2$	B32529C8222+***	12800	11200	8000
		0.0033	$3.5 \times 8.0 \times 7.2$	B32529C8332+***	9200	8000	8000
		0.0047	$3.5 \times 8.0 \times 7.2$	B32529C8472+***	9200	8000	8000
		0.0068	$3.5 \times 8.0 \times 7.2$	B32529C8682+***	9200	8000	8000
		0.010	$5.0 \times 10.0 \times 7.5$	B32529C8103+***	6400	5600	6000
		0.015	$5.0 \times 10.0 \times 7.5$	B32529C8153+***	6400	5600	6000
		0.022	$7.8 \times 13.0 \times 7.8$	B32529C8223+***	5200	4400	4000
		0.033	$7.8 \times 13.0 \times 7.8$	B32529C8333+***	4000	3200	4000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

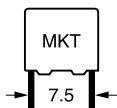
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


B32520
General purpose (stacked)
Ordering codes and packing units (lead spacing 7.5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
63	40	0.068	$2.5 \times 7.0 \times 10.0$	B32520C0683+***	12800	11200	10000
		0.10	$2.5 \times 7.0 \times 10.0$	B32520C0104+***	12800	11200	10000
		0.15	$2.5 \times 7.0 \times 10.0$	B32520C0154+***	12800	11200	10000
		0.22	$2.5 \times 7.0 \times 10.0$	B32520C0224+***	12800	11200	10000
		0.33	$2.5 \times 7.0 \times 10.0$	B32520C0334+***	12800	11200	10000
		0.47	$3.0 \times 8.0 \times 10.0$	B32520C0474+***	10400	9600	8000
		0.68	$4.0 \times 8.5 \times 10.0$	B32520C0684+***	8000	7200	6000
		1.0	$5.0 \times 10.5 \times 10.0$	B32520C0105+***	6400	5600	4000
		1.5	$5.0 \times 10.5 \times 10.0$	B32520C0155+***	6400	5600	4000
		2.2	$6.0 \times 12.0 \times 10.3$	B32520C0225+***	5200	4400	3000
100	63	0.047	$2.5 \times 7.0 \times 10.0$	B32520C1473+***	12800	11200	10000
		0.068	$2.5 \times 7.0 \times 10.0$	B32520C1683+***	12800	11200	10000
		0.10	$2.5 \times 7.0 \times 10.0$	B32520C1104+***	12800	11200	10000
		0.15	$3.0 \times 8.0 \times 10.0$	B32520C1154+***	10400	9600	8000
		0.22	$3.0 \times 8.0 \times 10.0$	B32520C1224+***	10400	9600	8000
		0.33	$4.0 \times 8.5 \times 10.0$	B32520C1334+***	8000	7200	6000
		0.47	$5.0 \times 10.5 \times 10.0$	B32520C1474+***	6400	5600	4000
		0.68	$6.0 \times 12.0 \times 10.3$	B32520C1684+***	5200	4400	3000
		1.0	$6.0 \times 12.0 \times 10.3$	B32520C1105+***	5200	4400	3000
250	160	0.015	$2.5 \times 7.0 \times 10.0$	B32520C3153+***	12800	11200	10000
		0.022	$2.5 \times 7.0 \times 10.0$	B32520C3223+***	12800	11200	10000
		0.033	$2.5 \times 7.0 \times 10.0$	B32520C3333+***	12800	11200	10000
		0.047	$2.5 \times 7.0 \times 10.0$	B32520C3473+***	12800	11200	10000
		0.068	$3.0 \times 8.0 \times 10.0$	B32520C3683+***	10400	9600	8000
		0.10	$4.0 \times 8.5 \times 10.0$	B32520C3104+***	8000	7200	6000
		0.15	$5.0 \times 10.5 \times 10.0$	B32520C3154+***	6400	5600	4000
		0.22	$6.0 \times 12.0 \times 10.3$	B32520C3224+***	5200	4400	3000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

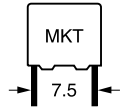
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)



Ordering codes and packing units (lead spacing 7.5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
400	200	0.0010	$2.5 \times 7.0 \times 10.0$	B32520C6102+***	12800	11200	10000
		0.0015	$2.5 \times 7.0 \times 10.0$	B32520C6152+***	12800	11200	10000
		0.0022	$2.5 \times 7.0 \times 10.0$	B32520C6222+***	12800	11200	10000
		0.0033	$2.5 \times 7.0 \times 10.0$	B32520C6332+***	12800	11200	10000
		0.0047	$2.5 \times 7.0 \times 10.0$	B32520C6472+***	12800	11200	10000
		0.0068	$2.5 \times 7.0 \times 10.0$	B32520C6682+***	12800	11200	10000
		0.010	$2.5 \times 7.0 \times 10.0$	B32520C6103+***	12800	11200	10000
		0.015	$3.0 \times 8.0 \times 10.0$	B32520E6153+***	10400	9600	8000
		0.022	$3.0 \times 8.0 \times 10.0$	B32520E6223+***	10400	9600	8000
		0.033	$4.0 \times 8.5 \times 10.0$	B32520E6333+***	8000	7200	6000
		0.047	$4.0 \times 8.5 \times 10.0$	B32520E6473+***	8000	7200	6000
		0.068	$5.0 \times 10.5 \times 10.0$	B32520E6683+***	6400	5600	4000
		0.10	$5.0 \times 10.5 \times 10.0$	B32520E6104+***	6400	5600	4000
		0.15	$6.0 \times 12.0 \times 10.3$	B32520E6154+***	5200	4400	3000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

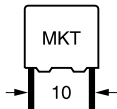
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


B32521
General purpose (stacked/wound)
Ordering codes and packing units (lead spacing 10 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
63	40	0.47	$4.0 \times 7.0 \times 13.0$	B32521C0474+***	4000	6800	4000
		0.68	$4.0 \times 7.0 \times 13.0$	B32521C0684+***	4000	6800	4000
		1.0	$4.0 \times 9.0 \times 13.0$	B32521C0105+***	4000	6800	4000
		1.5	$5.0 \times 11.0 \times 13.0$	B32521C0155+***	3320	5200	4000
		2.2	$5.0 \times 11.0 \times 13.0$	B32521C0225+***	3320	5200	4000
		3.3	$6.0 \times 12.0 \times 13.0$	B32521C0335+***	2720	4400	4000
100	63	0.10	$4.0 \times 7.0 \times 13.0$	B32521C1104+***	4000	6800	4000
		0.15	$4.0 \times 7.0 \times 13.0$	B32521C1154+***	4000	6800	4000
		0.22	$4.0 \times 7.0 \times 13.0$	B32521C1224+***	4000	6800	4000
		0.33	$4.0 \times 7.0 \times 13.0$	B32521C1334+***	4000	6800	4000
		0.47	$4.0 \times 9.0 \times 13.0$	B32521C1474+***	4000	6800	4000
		0.68	$5.0 \times 11.0 \times 13.0$	B32521C1684+***	3320	5200	4000
250	160	1.0	$6.0 \times 12.0 \times 13.0$	B32521C1105+***	2720	4400	4000
		0.033	$4.0 \times 7.0 \times 13.0$	B32521C3333+***	4000	6800	4000
		0.047	$4.0 \times 7.0 \times 13.0$	B32521C3473+***	4000	6800	4000
		0.068	$4.0 \times 7.0 \times 13.0$	B32521C3683+***	4000	6800	4000
		0.10	$4.0 \times 7.0 \times 13.0$	B32521C3104+***	4000	6800	4000
		0.15	$4.0 \times 9.0 \times 13.0$	B32521C3154+***	4000	6800	4000
400	200	0.22	$5.0 \times 11.0 \times 13.0$	B32521C3224+***	3320	5200	4000
		0.33	$5.0 \times 11.0 \times 13.0$	B32521C3334+***	3320	5200	4000
		0.47	$6.0 \times 12.0 \times 13.0$	B32521C3474+***	2720	4400	4000
		0.010	$4.0 \times 7.0 \times 13.0$	B32521E6103+***	4000	6800	4000
		0.015	$4.0 \times 7.0 \times 13.0$	B32521E6153+***	4000	6800	4000
		0.022	$4.0 \times 7.0 \times 13.0$	B32521E6223+***	4000	6800	4000
		0.033	$4.0 \times 7.0 \times 13.0$	B32521E6333+***	4000	6800	4000
		0.047	$4.0 \times 9.0 \times 13.0$	B32521E6473+***	4000	6800	4000
		0.068	$4.0 \times 9.0 \times 13.0$	B32521E6683+***	4000	6800	4000
		0.10	$5.0 \times 11.0 \times 13.0$	B32521E6104+***	3320	5200	4000
		0.15	$6.0 \times 12.0 \times 13.0$	B32521E6154+***	2720	4400	4000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

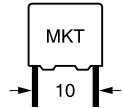
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)



Ordering codes and packing units (lead spacing 10 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
630	200	0.010	$4.0 \times 9.0 \times 13.0$	B32521D8103+***	—	6800	4000
		0.015	$5.0 \times 11.0 \times 13.0$	B32521D8153+***	—	6800	4000
		0.022	$5.0 \times 11.0 \times 13.0$	B32521D8223+***	—	5200	4000
		0.033	$6.0 \times 12.0 \times 13.0$	B32521D8333+***	—	5200	4000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

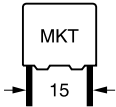
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


B32522
General purpose (stacked/wound)
Ordering codes and packing units (lead spacing 15 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
63	40	0.68	$5.0 \times 10.5 \times 18.0$	B32522C0684+***	4680	5200	4000
		1.0	$5.0 \times 10.5 \times 18.0$	B32522C0105+***	4680	5200	4000
		1.5	$5.0 \times 10.5 \times 18.0$	B32522C0155+***	4680	5200	4000
		2.2	$5.0 \times 10.5 \times 18.0$	B32522C0225+***	4680	5200	4000
		3.3	$6.0 \times 11.0 \times 18.0$	B32522C0335+***	3840	4400	4000
		4.7	$7.0 \times 12.5 \times 18.0$	B32522C0475+***	3320	3600	4000
		6.8	$8.5 \times 14.5 \times 18.0$	B32522C0685+***	2720	2800	2000
		10	$9.0 \times 17.5 \times 18.0$	B32522C0106+***	2560	2800	2000
100	63	0.33	$5.0 \times 10.5 \times 18.0$	B32522C1334+***	4680	5200	4000
		0.47	$5.0 \times 10.5 \times 18.0$	B32522C1474+***	4680	5200	4000
		0.68	$5.0 \times 10.5 \times 18.0$	B32522C1684+***	4680	5200	4000
		1.0	$5.0 \times 10.5 \times 18.0$	B32522C1105+***	4680	5200	4000
		1.0 ▽	$6.0 \times 11.0 \times 18.0$	B32522Q1105+***	3840	4400	4000
		1.5	$6.0 \times 11.0 \times 18.0$	B32522C1155+***	3840	4400	4000
		1.5 ▽	$7.0 \times 12.5 \times 18.0$	B32522Q1155+***	3320	3600	4000
		2.2	$7.0 \times 12.5 \times 18.0$	B32522C1225+***	3320	3600	4000
		2.2 ▽	$8.5 \times 14.5 \times 18.0$	B32522Q1225+***	2720	2800	2000
		3.3	$8.5 \times 14.5 \times 18.0$	B32522C1335+***	2720	2800	2000
		3.3 ▽	$9.0 \times 17.5 \times 18.0$	B32522Q1335+***	2560	2800	2000
		4.7	$9.0 \times 17.5 \times 18.0$	B32522C1475+***	2560	2800	2000
		4.7 ▽	$11.0 \times 18.5 \times 18.0$	B32522Q1475+***	—	2200	1200

▽ Wound capacitor technology

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

 M = $\pm 20\%$

 K = $\pm 10\%$

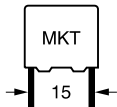
 J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


Ordering codes and packing units (lead spacing 15 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
250	160	0.10	$5.0 \times 10.5 \times 18.0$	B32522C3104+***	4680	5200	4000
		0.15	$5.0 \times 10.5 \times 18.0$	B32522C3154+***	4680	5200	4000
		0.22	$5.0 \times 10.5 \times 18.0$	B32522C3224+***	4680	5200	4000
		0.33	$5.0 \times 10.5 \times 18.0$	B32522C3334+***	4680	5200	4000
		0.47	$6.0 \times 11.0 \times 18.0$	B32522C3474+***	3840	4400	4000
		0.68	$7.0 \times 12.5 \times 18.0$	B32522C3684+***	3320	3600	4000
		1.0	$8.5 \times 14.5 \times 18.0$	B32522C3105+***	2720	2800	2000
		1.0 ▽	$8.5 \times 14.5 \times 18.0$	B32522N3105+***	2720	2800	2000
		1.5	$9.0 \times 17.5 \times 18.0$	B32522C3155+***	2560	2800	2000
		1.5 ▽	$9.0 \times 17.5 \times 18.0$	B32522N3155+***	2560	2800	2000
400	200	0.047	$5.0 \times 10.5 \times 18.0$	B32522E6473+***	4680	5200	4000
		0.068	$5.0 \times 10.5 \times 18.0$	B32522E6683+***	4680	5200	4000
		0.10	$5.0 \times 10.5 \times 18.0$	B32522E6104+***	4680	5200	4000
		0.15	$5.0 \times 10.5 \times 18.0$	B32522E6154+***	4680	5200	4000
		0.22	$6.0 \times 11.0 \times 18.0$	B32522E6224+***	3840	4400	4000
		0.33	$7.0 \times 12.5 \times 18.0$	B32522E6334+***	3320	3600	4000
		0.47	$9.0 \times 17.5 \times 18.0$	B32522E6474+***	2560	2800	2000
		0.68	$9.0 \times 17.5 \times 18.0$	B32522E6684+***	2560	2800	2000
450	200	0.10 ▽	$5.0 \times 10.5 \times 18.0$	B32522N6104+***	4680	5200	4000
		0.15 ▽	$5.0 \times 10.5 \times 18.0$	B32522N6154+***	4680	5200	4000
		0.22 ▽	$6.0 \times 11.0 \times 18.0$	B32522N6224+***	3840	4400	4000
		0.33 ▽	$7.0 \times 12.5 \times 18.0$	B32522N6334+***	3320	3600	4000
		0.47 ▽	$8.5 \times 14.5 \times 18.0$	B32522N6474+***	2720	2800	2000
		0.68 ▽	$9.0 \times 17.5 \times 18.0$	B32522N6684+***	2560	2800	2000
		1.0 ▽	$11.0 \times 18.5 \times 18.0$	B32522N6105+***	—	2200	1200

▽ Wound capacitor technology

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

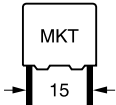
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


B32522
General purpose (stacked/wound)
Ordering codes and packing units (lead spacing 15 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
630	200	0.047	$5.0 \times 10.5 \times 18.0$	B32522D8473+***	—	5200	4000
		0.068	$6.0 \times 11.0 \times 18.0$	B32522D8683+***	—	4400	4000
		0.10	$7.0 \times 12.5 \times 18.0$	B32522D8104+***	—	3600	4000
		0.15	$8.5 \times 14.5 \times 18.0$	B32522D8154+***	—	2800	2000
		0.22	$9.0 \times 17.5 \times 18.0$	B32522D8224+***	—	2800	2000

▽ Wound capacitor technology

MOQ = Minimum Order Quantity, consisting of 4 packing units.
Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)

Ordering codes and packing units (lead spacing 22.5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./MOQ	Untaped pcs./MOQ
V DC	V AC	μF					
63	40	3.3	$6.0 \times 15.0 \times 26.5$	B32523R0335+***	2720	2800	2880
		4.7	$6.0 \times 15.0 \times 26.5$	B32523R0475+***	2720	2800	2880
		6.8	$6.0 \times 15.0 \times 26.5$	B32523R0685+***	2720	2800	2880
		10	$7.0 \times 16.0 \times 26.5$	B32523R0106+***	2320	2400	2520
		15	$10.5 \times 16.5 \times 26.5$	B32523R0156+***	1560	1600	2160
		22	$12.0 \times 22.0 \times 26.5$	B32523R0226+***	—	—	1800
100	63	1.5	$6.0 \times 15.0 \times 26.5$	B32523Q1155+***	2720	2800	2880
		2.2	$6.0 \times 15.0 \times 26.5$	B32523Q1225+***	2720	2800	2880
		3.3	$6.0 \times 15.0 \times 26.5$	B32523Q1335+***	2720	2800	2880
		4.7	$7.0 \times 16.0 \times 26.5$	B32523Q1475+***	2320	2400	2540
		6.8	$8.5 \times 16.5 \times 26.5$	B32523Q1685+***	1960	2000	2040
		10	$10.5 \times 16.5 \times 26.5$	B32523Q1106+***	1560	1600	2160
		15	$12.0 \times 22.0 \times 26.5$	B32523Q1156+***	—	—	1800
250	160	0.47	$6.0 \times 15.0 \times 26.5$	B32523Q3474+***	2720	2800	2880
		0.68	$6.0 \times 15.0 \times 26.5$	B32523Q3684+***	2720	2800	2880
		1.0	$6.0 \times 15.0 \times 26.5$	B32523Q3105+***	2720	2800	2880
		1.5	$7.0 \times 16.0 \times 26.5$	B32523Q3155+***	2320	2400	2520
		2.2	$10.5 \times 16.5 \times 26.5$	B32523Q3225+***	1560	1600	2160
		3.3	$11.0 \times 20.5 \times 26.5$	B32523Q3335+***	1480	1400	2040
400	200	0.22	$6.0 \times 15.0 \times 26.5$	B32523Q6224+***	2720	2800	2880
		0.33	$6.0 \times 15.0 \times 26.5$	B32523Q6334+***	2720	2800	2880
		0.47	$7.0 \times 16.0 \times 26.5$	B32523Q6474+***	2320	2400	2520
		0.68	$8.5 \times 16.5 \times 26.5$	B32523Q6684+***	1920	2000	2040
		1.0	$10.5 \times 16.5 \times 26.5$	B32523Q6105+***	1560	1600	2160
		1.5	$11.0 \times 20.5 \times 26.5$	B32523Q6155+***	1480	1400	2040
630	200	0.10	$6.0 \times 15.0 \times 26.5$	B32523Q8104+***	2720	2800	2880
		0.15	$6.0 \times 15.0 \times 26.5$	B32523Q8154+***	2720	2800	2880
		0.22	$7.0 \times 16.0 \times 26.5$	B32523Q8224+***	2320	2400	2520
		0.33	$10.5 \times 16.5 \times 26.5$	B32523Q8334+***	1560	1600	2160
		0.47	$10.5 \times 20.5 \times 26.5$	B32523Q8474+***	1560	1600	2160
		0.68	$12.0 \times 22.0 \times 26.5$	B32523Q8684+***	—	—	1800

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

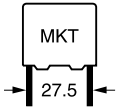
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


B32524
General purpose (wound)
Ordering codes and packing units (lead spacing 27.5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./MOQ	Untaped pcs./MOQ
V DC	V AC	μF					
63	40	4.7	$11.0 \times 21.0 \times 31.5$	B32524R0475+***	—	1400	1280
		6.8	$11.0 \times 21.0 \times 31.5$	B32524Q0685+***	—	1400	1280
		10	$11.0 \times 21.0 \times 31.5$	B32524R0106+***	—	1400	1280
		15	$11.0 \times 21.0 \times 31.5$	B32524R0156+***	—	1400	1280
		22	$11.0 \times 21.0 \times 31.5$	B32524R0226+***	—	1400	1280
		33	$12.5 \times 21.5 \times 31.5$	B32524R0336+***	—	1200	1120
		47	$18.0 \times 27.5 \times 31.5$	B32524R0476+***	—	—	800
		68	$18.0 \times 27.5 \times 31.5$	B32524R0686+***	—	—	800
		100	$22.0 \times 36.5 \times 31.5$	B32524R0107+***	—	—	640
100	63	4.7	$11.0 \times 21.0 \times 31.5$	B32524Q1475+***	—	1400	1280
		6.8	$11.0 \times 21.0 \times 31.5$	B32524Q1685+***	—	1400	1280
		10	$11.0 \times 21.0 \times 31.5$	B32524Q1106+***	—	1400	1280
		15	$11.0 \times 21.0 \times 31.5$	B32524Q1156+***	—	1400	1280
		22	$14.0 \times 24.5 \times 31.5$	B32524Q1226+***	—	1000	1040
		33	$18.0 \times 27.5 \times 31.5$	B32524Q1336+***	—	—	800
		47	$21.0 \times 31.0 \times 31.5$	B32524Q1476+***	—	—	720
		68	$22.0 \times 36.5 \times 31.5$	B32524Q1686+***	—	—	640
250	160	1.5	$11.0 \times 21.0 \times 31.5$	B32524Q3155+***	—	1400	1280
		2.2	$11.0 \times 21.0 \times 31.5$	B32524Q3225+***	—	1400	1280
		3.3	$11.0 \times 21.0 \times 31.5$	B32524Q3335+***	—	1400	1280
		4.7	$11.0 \times 21.0 \times 31.5$	B32524Q3475+***	—	1400	1280
		6.8	$11.0 \times 21.0 \times 31.5$	B32524R3685+***	—	1400	1280
		10	$12.5 \times 21.5 \times 31.5$	B32524R3106+***	—	1200	1120
		15	$15.0 \times 24.5 \times 31.5$	B32524R3156+***	—	—	960
		22	$19.0 \times 30.0 \times 31.5$	B32524R3226+***	—	—	720
		33	$22.0 \times 36.5 \times 31.5$	B32524R3336+***	—	—	640

MOQ = Minimum Order Quantity, consisting of 4 packing units.
Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)

Ordering codes and packing units (lead spacing 27.5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./MOQ	Untaped pcs./MOQ
V DC	V AC	μF					
400	200	0.68	$11.0 \times 19.0 \times 31.5$	B32524Q6684+***	—	1400	1280
		1.0	$11.0 \times 19.0 \times 31.5$	B32524Q6105+***	—	1400	1280
		1.5	$11.0 \times 19.0 \times 31.5$	B32524Q6155+***	—	1400	1280
		2.2	$11.0 \times 21.0 \times 31.5$	B32524R6225+***	—	1400	1280
		3.3	$14.0 \times 24.5 \times 31.5$	B32524R6335+***	—	1000	1040
		4.7	$14.0 \times 24.5 \times 31.5$	B32524R6475+***	—	1000	1040
		6.8	$18.0 \times 27.5 \times 31.5$	B32524R6685+***	—	—	800
		10	$22.0 \times 36.5 \times 31.5$	B32524R6106+***	—	—	640
630	220	0.33	$11.0 \times 21.0 \times 31.5$	B32524Q8334+***	—	1400	1280
		0.47	$11.0 \times 21.0 \times 31.5$	B32524Q8474+***	—	1400	1280
		0.68	$11.0 \times 21.0 \times 31.5$	B32524Q8684+***	—	1400	1280
		1.0	$14.0 \times 24.5 \times 31.5$	B32524Q8105+***	—	1000	1040
		1.5	$18.0 \times 27.5 \times 31.5$	B32524Q8155+***	—	—	800
		2.2	$21.0 \times 31.0 \times 31.5$	B32524Q8225+***	—	—	720

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

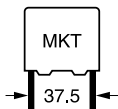
J = $\pm 5\%$

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 6 – 1 mm)


B32526
General purpose (wound)
Ordering codes and packing units (lead spacing 37.5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./MOQ	Untaped pcs./MOQ
V DC	V AC	μF					
63	40	22	$12.0 \times 22.0 \times 41.5$	B32526R0226+***	—	—	1620
		33	$12.0 \times 22.0 \times 41.5$	B32526R0336+***	—	—	1620
		47	$12.0 \times 22.0 \times 41.5$	B32526R0476+***	—	—	1620
		56	$24.0 \times 15.0 \times 41.5$	B32526T0566+***	—	—	1040
		68	$16.0 \times 28.5 \times 41.5$	B32526R0686+***	—	—	800
		82	$24.0 \times 19.0 \times 41.5$	B32526T0826+***	—	—	780
		100	$18.0 \times 32.5 \times 41.5$	B32526R0107+***	—	—	720
		150	$20.0 \times 39.5 \times 41.5$	B32526R0157+***	—	—	640
100	63	220	$28.0 \times 42.5 \times 41.5$	B32526R0227A***	—	—	440
		15	$12.0 \times 22.0 \times 41.5$	B32526R1156+***	—	—	1620
		22	$12.0 \times 22.0 \times 41.5$	B32526R1226+***	—	—	1620
		33	$14.0 \times 25.0 \times 41.5$	B32526R1336+***	—	—	1380
		33	$24.0 \times 15.0 \times 41.5$	B32526T1336+***	—	—	1040
		47	$16.0 \times 28.5 \times 41.5$	B32526R1476+***	—	—	800
		47	$24.0 \times 19.0 \times 41.5$	B32526T1476+***	—	—	780
		68	$18.0 \times 32.5 \times 41.5$	B32526R1686+***	—	—	720
250	160	100	$20.0 \times 39.5 \times 41.5$	B32526R1107+***	—	—	640
		150	$28.0 \times 42.5 \times 41.5$	B32526R1157+***	—	—	440
		4.7	$12.0 \times 22.0 \times 41.5$	B32526R3475+***	—	—	1620
		6.8	$12.0 \times 22.0 \times 41.5$	B32526R3685+***	—	—	1620
		10	$12.0 \times 22.0 \times 41.5$	B32526R3106+***	—	—	1620
		15	$14.0 \times 25.0 \times 41.5$	B32526R3156+***	—	—	1380
		15	$24.0 \times 15.0 \times 41.5$	B32526T3156+***	—	—	1040
		22	$16.0 \times 28.5 \times 41.5$	B32526R3226+***	—	—	800
		22	$24.0 \times 19.0 \times 41.5$	B32526T3226+***	—	—	780
		33	$20.0 \times 39.5 \times 41.5$	B32526R3336+***	—	—	640
		47	$20.0 \times 39.5 \times 41.5$	B32526R3476+***	—	—	640
		68	$28.0 \times 42.5 \times 41.5$	B32526R3686+***	—	—	440

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

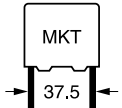
K = $\pm 10\%$

J = $\pm 5\%$

A = $-15 \dots +5\%$ (220 μF type only)

*** = Packaging code:

000 = Untaped (lead length 6 – 1 mm)


Ordering codes and packing units (lead spacing 37.5 mm)

V_R	V_{RMS} $f \leq 60 \text{ Hz}$	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./MOQ	Untaped pcs./MOQ
V DC	V AC	μF					
400	200	3.3	$12.0 \times 22.0 \times 41.5$	B32526R6335+***	—	—	1620
		4.7	$12.0 \times 22.0 \times 41.5$	B32526R6475+***	—	—	1620
		5.6	$24.0 \times 15.0 \times 41.5$	B32526T6565+***	—	—	1040
		6.8	$14.0 \times 25.0 \times 41.5$	B32526R6685+***	—	—	1380
		8.2	$24.0 \times 19.0 \times 41.5$	B32526T6825+***	—	—	780
		10	$18.0 \times 32.5 \times 41.5$	B32526R6106+***	—	—	720
		15	$20.0 \times 39.5 \times 41.5$	B32526R6156+***	—	—	640
		22	$28.0 \times 42.5 \times 41.5$	B32526R6226+***	—	—	440

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

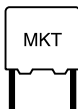
K = $\pm 10\%$

J = $\pm 5\%$

A = $-15 \dots +5\%$ (220 μF type only)

*** = Packaging code:

000 = Untaped (lead length 6 – 1 mm)

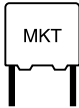


B32520 ... B32529

General purpose (stacked/wound)

Technical data

Operating temperature range	Max. operating temperature $T_{op,max}$ +125 °C Upper category temperature T_{max} +125 °C Lower category temperature T_{min} -55 °C Rated temperature T_R +85 °C			
Dissipation factor $\tan \delta$ (in 10^{-3}) at 20 °C (upper limit values)	at	$C_R \leq 0.1 \mu F$	$0.1 \mu F < C_R \leq 1 \mu F$	$C_R > 1 \mu F$
	1 kHz	8	8	10
	10 kHz	15	15	—
	100 kHz	30	—	—
Insulation resistance R_{ins} or time constant $\tau = C_R \cdot R_{ins}$ at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values)	V_R	$C_R \leq 0.33 \mu F$		$C_R > 0.33 \mu F$
	≤ 100 V DC	3750 M Ω		1250 s
	≥ 250 V DC	7500 M Ω		2500 s
DC test voltage	1.4 · V_R , 2 s			
Category voltage V_C (continuous operation with V_{DC} or V_{AC} at $f \leq 60$ Hz)	T_A (°C)	DC voltage derating		AC voltage derating
	$T_A \leq 85$	$V_C = V_R$		$V_{C,RMS} = V_{RMS}$
	$85 < T_A \leq 125$	$V_C = V_R \cdot (165 - T_A)/80$		$V_{C,RMS} = V_{RMS} \cdot (165 - T_A)/80$
Operating voltage V_{op} for short operating periods (V_{DC} or V_{AC} at $f \leq 60$ Hz)	T_A (°C)	DC voltage (max. hours)		AC voltage (max. hours)
	$T_A \leq 100$	$V_{op} = 1.25 \cdot V_C$ (2000 h)		$V_{op} = 1.0 \cdot V_{C,RMS}$ (2000 h)
	$100 < T_A \leq 125$	$V_{op} = 1.25 \cdot V_C$ (1000 h)		$V_{op} = 1.0 \cdot V_{C,RMS}$ (1000 h)
Damp heat test Limit values after damp heat test	56 days/40 °C/93% relative humidity Capacitance change $ \Delta C/C $ $\leq 5\%$ Dissipation factor change $\Delta \tan \delta$ $\leq 5 \cdot 10^{-3}$ (at 1 kHz) Insulation resistance R_{ins} $\geq 50\%$ of minimum or time constant $\tau = C_R \cdot R_{ins}$ as-delivered values			
Reliability: Failure rate λ Service life t_{SL}	1 fit ($\leq 1 \cdot 10^{-9}/h$) at 0.5 · V_R , 40 °C 200 000 h at 1.0 · V_R , 85 °C For conversion to other operating conditions and temperatures, refer to chapter "Quality, 2 Reliability".			
Failure criteria: Total failure Failure due to variation of parameters	Short circuit or open circuit Capacitance change $ \Delta C/C $ $> 10\%$ Dissipation factor $\tan \delta$ $> 2 \cdot$ upper limit value Insulation resistance R_{ins} < 150 M Ω ($C_R \leq 0.33 \mu F$) or time constant $\tau = C_R \cdot R_{ins}$ < 50 s ($C_R > 0.33 \mu F$)			



Pulse handling capability

"dV/dt" represents the maximum permissible voltage change per unit of time for non-sinusoidal voltages, expressed in V/ μ s.

"k₀" represents the maximum permissible pulse characteristic of the waveform applied to the capacitor, expressed in V²/ μ s.

Note:

The values of dV/dt and k₀ provided below must not be exceeded in order to avoid damaging the capacitor.

dV/dt values

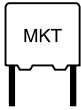
Lead spacing	5 mm	7.5 mm	10 mm		15 mm		22.5 mm	27.5 mm	37.5 mm	
Technology	S	S	S	W	S	W	W	W	W	
V _R	V _{RMS}	dV/dt in V/μs								
V DC	V AC									
63	40	250	120	50	—	30	—	3	1	0.8
100	63	300	150	75	—	50	5	4	3	1
250	160	400	200	150	—	100	10	8	5	4
400	200	600	275	175	—	125	—	10	8.5	6
450	200	—	—	—	—	—	20	—	—	—
630	400	800	—	320	—	150	—	15	12	—

S = Stacked, W = Wound

k₀ values

Lead spacing		5 mm	7.5 mm	10 mm		15 mm		22.5 mm	27.5 mm	37.5 mm
Technology		S	S	S	W	S	W	W	W	W
V _R	V _{RMS}	k ₀ in V ² /μs								
V DC	V AC									
63	40	30000	15000	6300	—	3800	—	375	130	100
100	63	60000	30000	15000	—	10000	850	800	600	200
250	160	200000	100000	75000	—	50000	5000	4000	2500	2000
400	200	500000	220000	140000	—	100000	—	10000	8500	6000
450	200	—	—	—	—	—	15000	—	—	—
630	400	1000000	—	400000	—	190000	—	18000	15000	—

S = Stacked, W = Wound

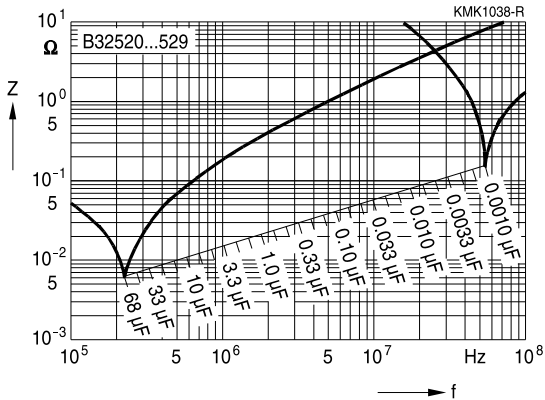


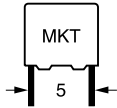
B32520 ... B32529

General purpose (stacked/wound)

Impedance Z versus frequency f

(typical values)

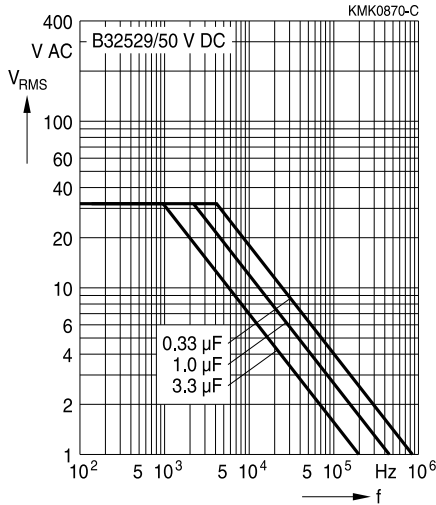



Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

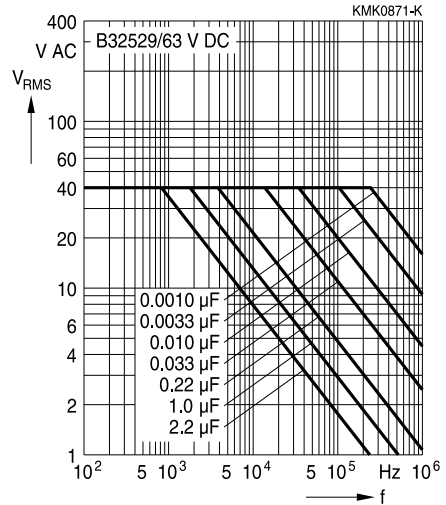
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 5 mm

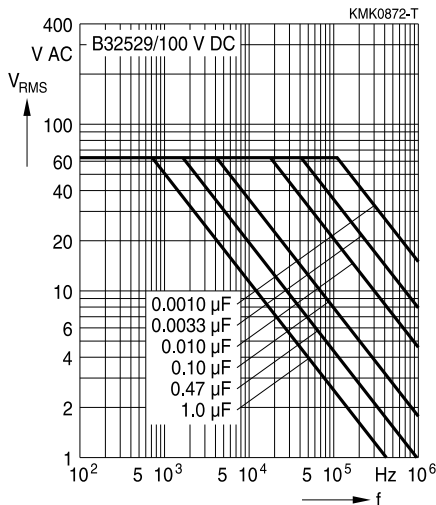
50 V DC/32 V AC



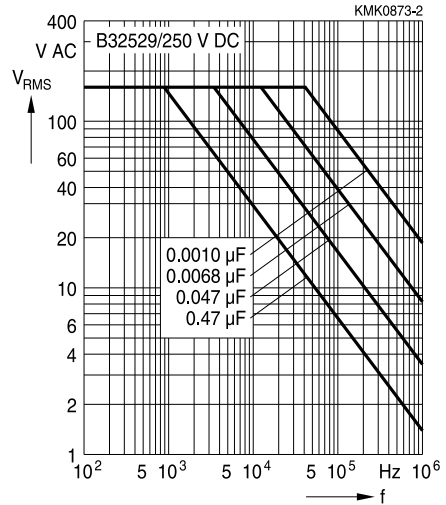
63 V DC/40 V AC

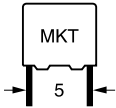


100 V DC/63 V AC



250 V DC/160 V AC





B32529

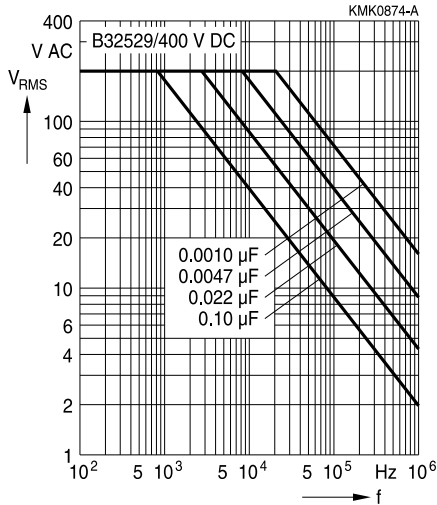
General purpose (stacked)

Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

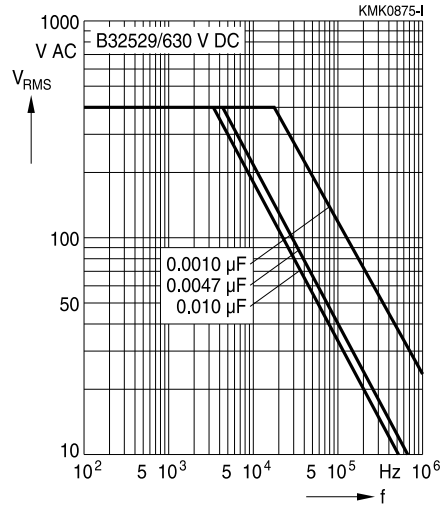
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 5 mm

400 V DC/200 V AC



630 V DC/400 V AC

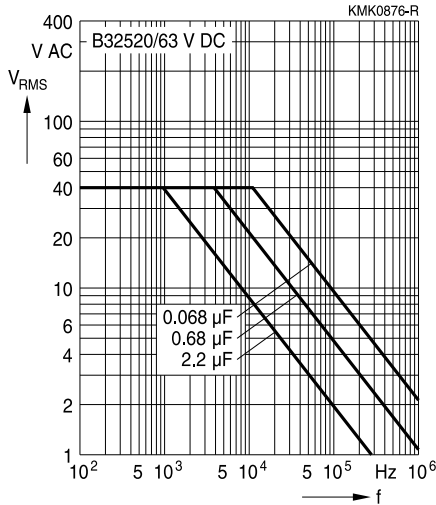


Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

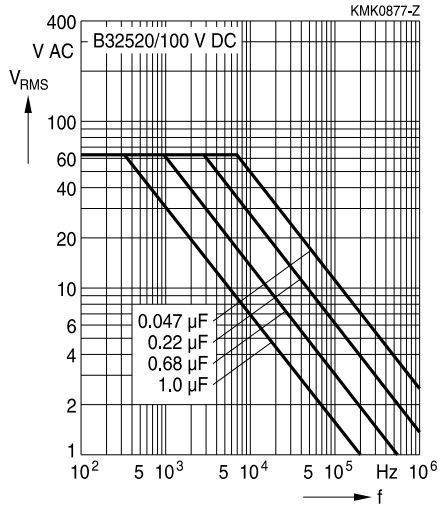
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 7.5 mm

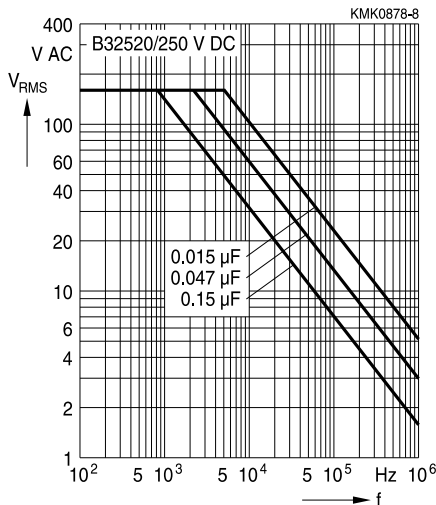
63 V DC/40 V AC



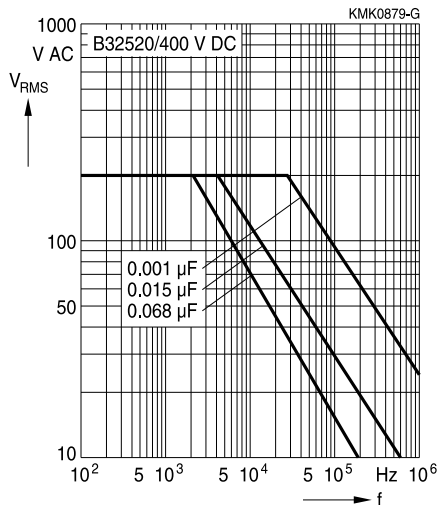
100 V DC/63 V AC

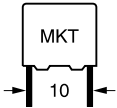


250 V DC/160 V AC



400 V DC/200 V AC





B32521

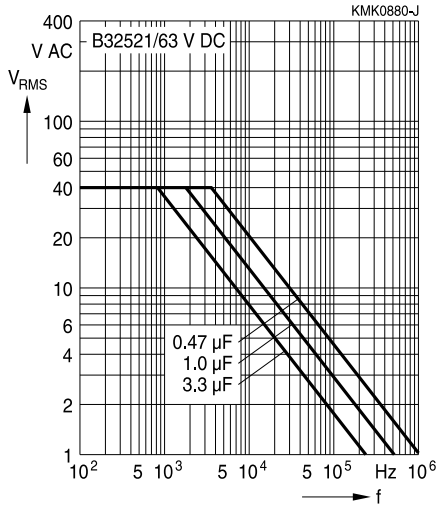
General purpose (stacked/wound)

Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

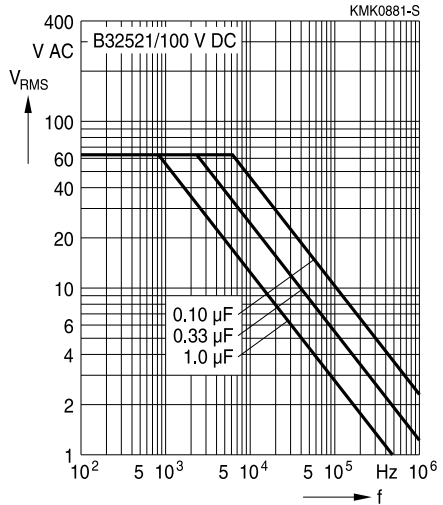
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 10 mm

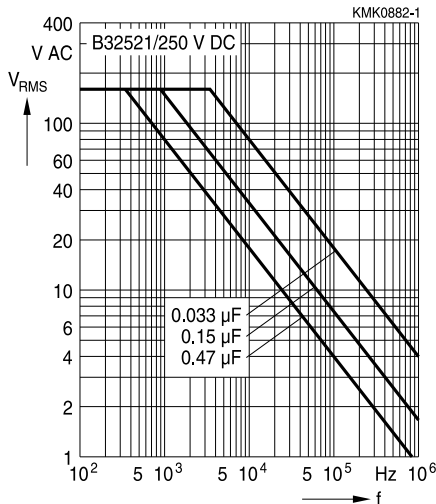
63 V DC/40 V AC



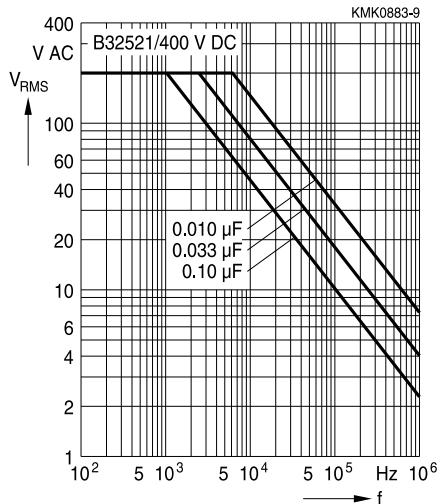
100 V DC/63 V AC

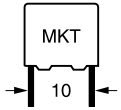


250 V DC/160 V AC



400 V DC/200 V AC



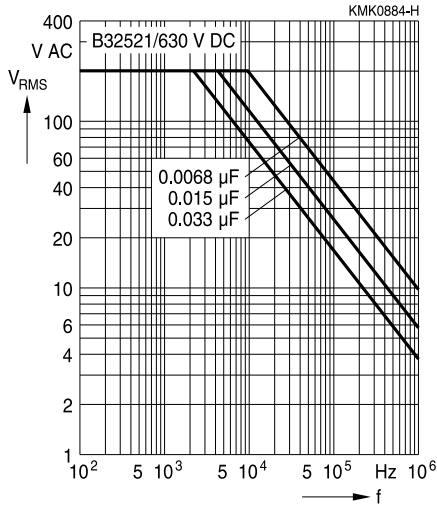


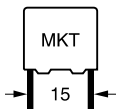
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 10 mm

630 V DC/200 V AC





B32522

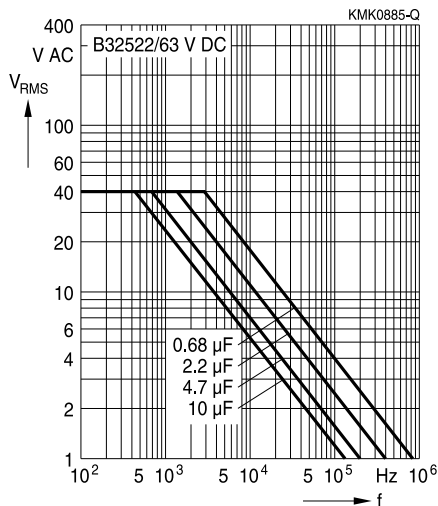
General purpose (stacked/wound)

Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

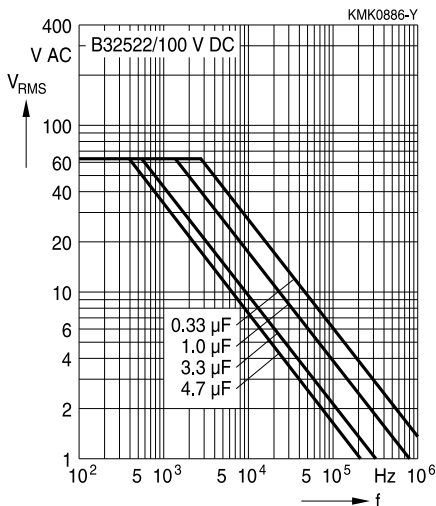
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 15 mm

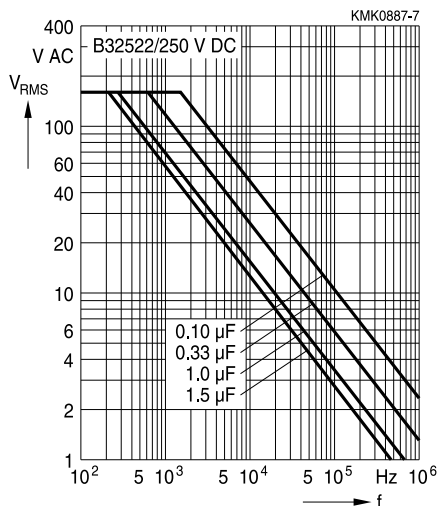
63 V DC/40 V AC



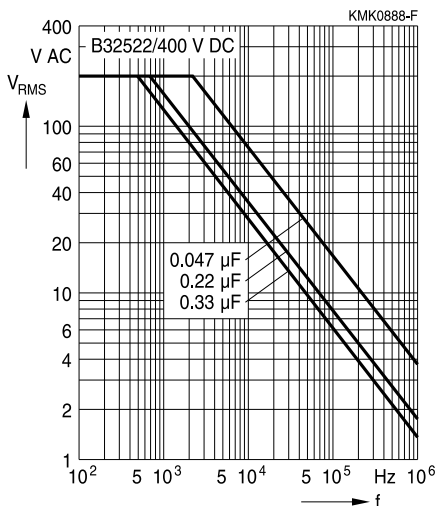
100 V DC/63 V AC

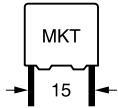


250 V DC/160 V AC



400 V DC/200 V AC



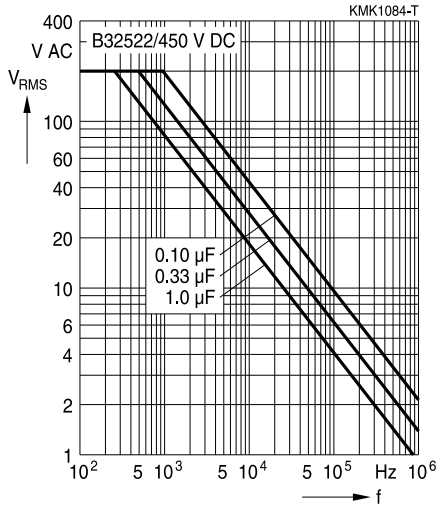


Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

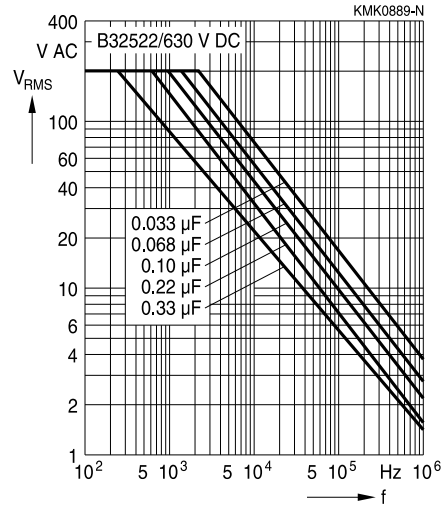
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

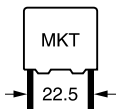
Lead spacing 15 mm

450 V DC/200 V AC



630 V DC/200 V AC





B32523

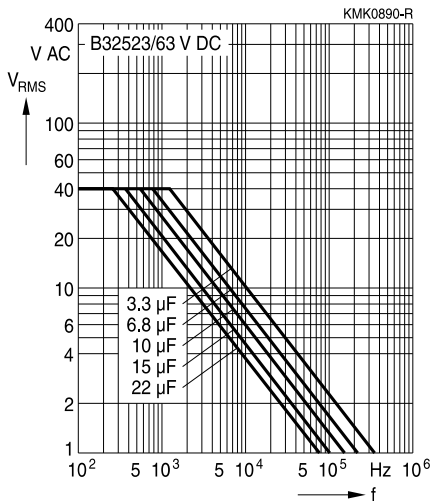
General purpose (wound)

Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ C$)

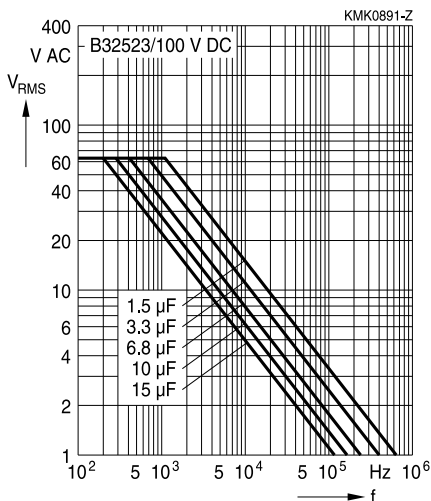
For $T_A > 55^\circ C$, please refer to "General technical information", section 3.2.3.

Lead spacing 22.5 mm

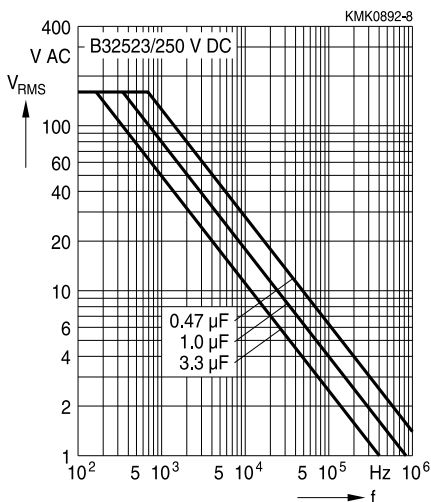
63 V DC/40 V AC



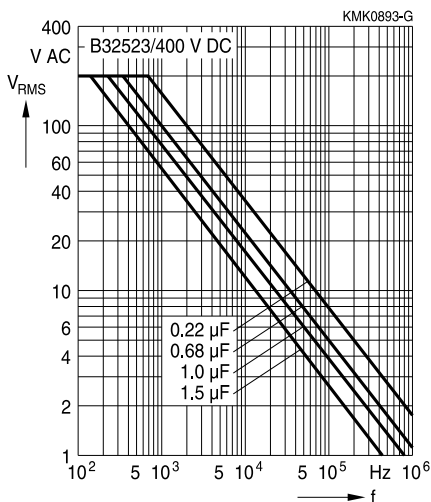
100 V DC/63 V AC

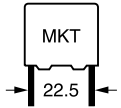


250 V DC/160 V AC



400 V DC/200 V AC



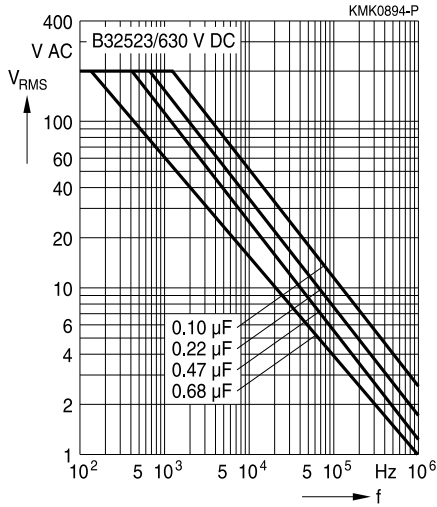


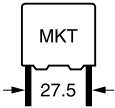
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 22.5 mm

630 V DC/200 V AC





B32524

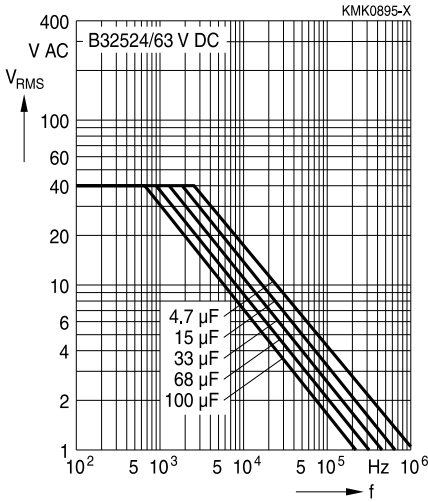
General purpose (wound)

Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

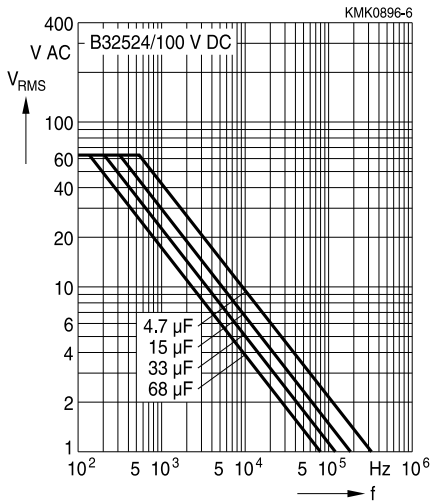
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 27.5 mm

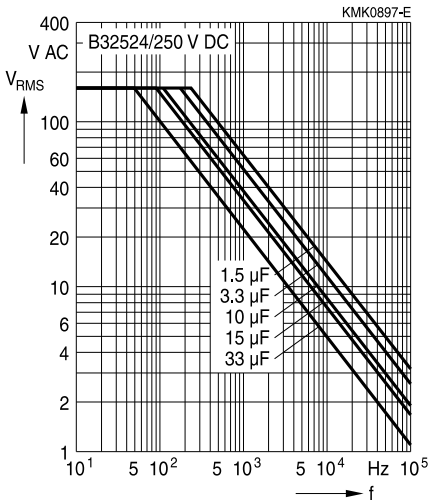
63 V DC/40 V AC



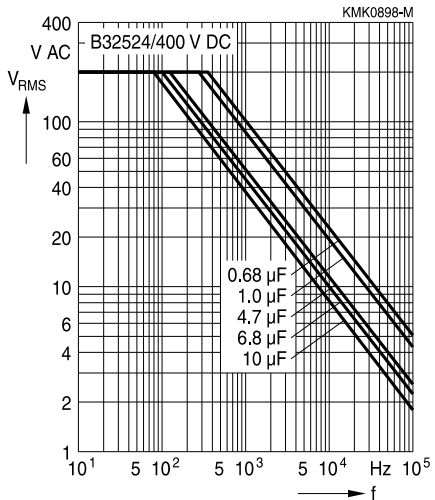
100 V DC/63 V AC

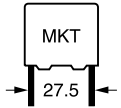


250 V DC/160 V AC



400 V DC/200 V AC



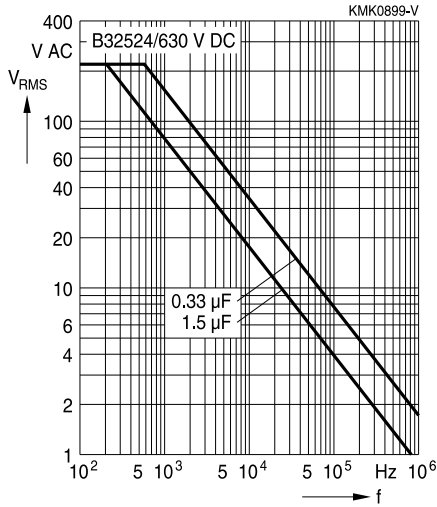


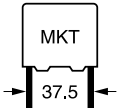
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 27.5 mm

630 V DC/220 V AC





B32526

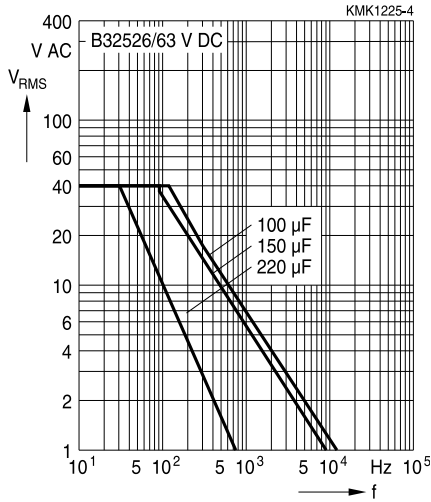
General purpose (wound)

Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ\text{C}$)

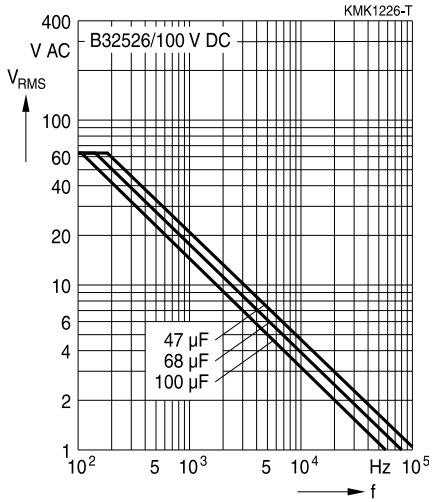
For $T_A > 55^\circ\text{C}$, please refer to "General technical information", section 3.2.3.

Lead spacing 37.5 mm

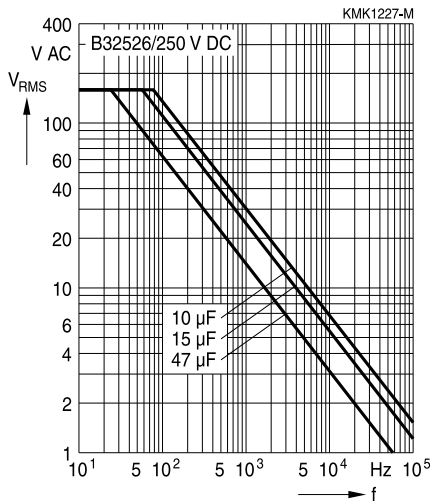
63 V DC/40 V AC



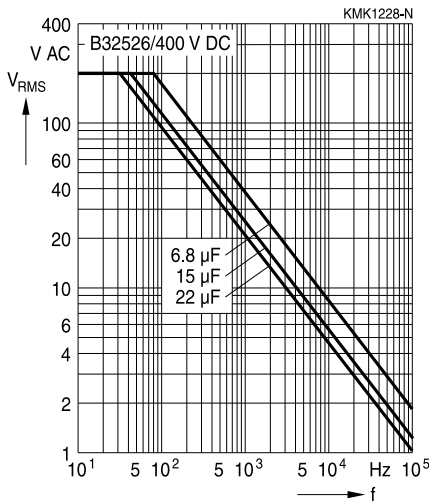
100 V DC/63 V AC

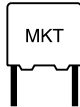


250 V DC/160 V AC



400 V DC/200 V AC





Mounting guidelines

1 Soldering

1.1 Solderability of leads

The solderability of terminal leads is tested to IEC 60068-2-20, test Ta, method 1.

Before a solderability test is carried out, terminals are subjected to accelerated ageing (to IEC 60068-2-2, test Ba: 4 h exposure to dry heat at 155 °C). Since the ageing temperature is far higher than the upper category temperature of the capacitors, the terminal wires should be cut off from the capacitor before the ageing procedure to prevent the solderability being impaired by the products of any capacitor decomposition that might occur.

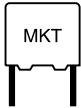
Solder bath temperature	235 ±5 °C
Soldering time	2.0 ±0.5 s
Immersion depth	2.0 +0/-0.5 mm from capacitor body or seating plane
Evaluation criteria:	
Visual inspection	Wetting of wire surface by new solder ≥90%, free-flowing solder

1.2 Resistance to soldering heat

Resistance to soldering heat is tested to IEC 60068-2-20, test Tb, method 1A.

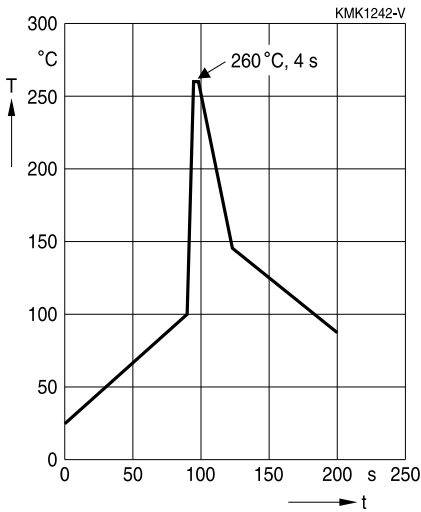
Conditions:

Series	Solder bath temperature	Soldering time
MKT boxed (except 2.5 × 6.5 × 7.2 mm) coated uncoated (lead spacing > 10 mm)	260 ±5 °C	10 ±1 s
MFP		
MKP (lead spacing > 7.5 mm)		
MKT boxed (case 2.5 × 6.5 × 7.2 mm)		5 ±1 s
MKP (lead spacing ≤ 7.5 mm)		< 4 s
MKT uncoated (lead spacing ≤ 10 mm) insulated (B32559)		recommended soldering profile for MKT uncoated (lead spacing ≤ 10 mm) and insulated (B32559)

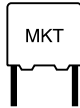


B32520 ... B32529

General purpose (stacked/wound)



Immersion depth	2.0 +0/−0.5 mm from capacitor body or seating plane
Shield	Heat-absorbing board, (1.5 ±0.5) mm thick, between capacitor body and liquid solder
Evaluation criteria:	
Visual inspection	No visible damage
$\Delta C/C_0$	2% for MKT/MKP/MFP 5% for EMI suppression capacitors
$\tan \delta$	As specified in sectional specification



1.3 General notes on soldering

Permissible heat exposure loads on film capacitors are primarily characterized by the upper category temperature $T_{\max}$. Long exposure to temperatures above this type-related temperature limit can lead to changes in the plastic dielectric and thus change irreversibly a capacitor's electrical characteristics. For short exposures (as in practical soldering processes) the heat load (and thus the possible effects on a capacitor) will also depend on other factors like:

- Pre-heating temperature and time
- Forced cooling immediately after soldering
- Terminal characteristics:
 - diameter, length, thermal resistance, special configurations (e.g. crimping)
- Height of capacitor above solder bath
- Shadowing by neighboring components
- Additional heating due to heat dissipation by neighboring components
- Use of solder-resist coatings

The overheating associated with some of these factors can usually be reduced by suitable countermeasures. For example, if a pre-heating step cannot be avoided, an additional or reinforced cooling process may possibly have to be included.

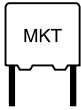
EPCOS recommends the following conditions:

- Pre-heating with a maximum temperature of 110 °C
- Temperature inside the capacitor should not exceed the following limits:
 - MKP/MFP 110 °C
 - MKT 160 °C
- When SMD components are used together with leaded ones, the leaded film capacitors should not pass into the SMD adhesive curing oven. The leaded components should be assembled after the SMD curing step.
- Leaded film capacitors are not suitable for reflow soldering.

Uncoated capacitors

For uncoated MKT capacitors with lead spacings ≤ 10 mm (B32560/B32561) the following measures are recommended:

- pre-heating to not more than 110 °C in the preheater phase
- rapid cooling after soldering



B32520 ... B32529

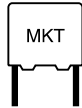
General purpose (stacked/wound)

Cautions and warnings

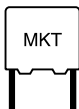
- Do not exceed the upper category temperature (UCT).
- Do not apply any mechanical stress to the capacitor terminals.
- Avoid any compressive, tensile or flexural stress.
- Do not move the capacitor after it has been soldered to the PC board.
- Do not pick up the PC board by the soldered capacitor.
- Do not place the capacitor on a PC board whose PTH hole spacing differs from the specified lead spacing.
- Do not exceed the specified time or temperature limits during soldering.
- Avoid external energy inputs, such as fire or electricity.
- Avoid overload of the capacitors.

The table below summarizes the safety instructions that must always be observed. A detailed description can be found in the relevant sections of the chapters "General technical information" and "Mounting guidelines".

Topic	Safety information	Reference chapter "General technical information"
Storage conditions	Make sure that capacitors are stored within the specified range of time, temperature and humidity conditions.	4.5 "Storage conditions"
Flammability	Avoid external energy, such as fire or electricity (passive flammability), avoid overload of the capacitors (active flammability) and consider the flammability of materials.	5.3 "Flammability"
Resistance to vibration	Do not exceed the tested ability to withstand vibration. The capacitors are tested to IEC 60068-2-6. EPCOS offers film capacitors specially designed for operation under more severe vibration regimes such as those found in automotive applications. Consult our catalog "Film Capacitors for Automotive Electronics".	5.2 "Resistance to vibration"

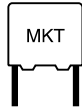


Topic	Safety information	Reference chapter "Mounting guidelines"
Soldering	Do not exceed the specified time or temperature limits during soldering.	1 "Soldering"
Cleaning	Use only suitable solvents for cleaning capacitors.	2 "Cleaning"
Embedding of capacitors in finished assemblies	When embedding finished circuit assemblies in plastic resins, chemical and thermal influences must be taken into account. Caution: Consult us first, if you also wish to embed other uncoated component types!	3 "Embedding of capacitors in finished assemblies"

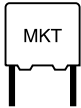


Symbols and terms

Symbol	English	German
α	Heat transfer coefficient	Wärmeübergangszahl
α_C	Temperature coefficient of capacitance	Temperaturkoeffizient der Kapazität
A	Capacitor surface area	Kondensatoroberfläche
β_C	Humidity coefficient of capacitance	Feuchtekoeffizient der Kapazität
C	Capacitance	Kapazität
C_R	Rated capacitance	Nennkapazität
ΔC	Absolute capacitance change	Absolute Kapazitätsänderung
$\Delta C/C$	Relative capacitance change (relative deviation of actual value)	Relative Kapazitätsänderung (relative Abweichung vom Ist-Wert)
$\Delta C/C_R$	Capacitance tolerance (relative deviation from rated capacitance)	Kapazitätstoleranz (relative Abweichung vom Nennwert)
dt	Time differential	Differentielle Zeit
Δt	Time interval	Zeitintervall
ΔT	Absolute temperature change (self-heating)	Absolute Temperaturänderung (Selbsterwärmung)
$\Delta \tan \delta$	Absolute change of dissipation factor	Absolute Änderung des Verlustfaktors
ΔV	Absolute voltage change	Absolute Spannungsänderung
dV/dt	Time differential of voltage function (rate of voltage rise)	Differentielle Spannungsänderung (Spannungsflankensteilheit)
$\Delta V/\Delta t$	Voltage change per time interval	Spannungsänderung pro Zeitintervall
E	Activation energy for diffusion	Aktivierungsenergie zur Diffusion
ESL	Self-inductance	Eigeninduktivität
ESR	Equivalent series resistance	Ersatz-Serienwiderstand
f	Frequency	Frequenz
f_1	Frequency limit for reducing permissible AC voltage due to thermal limits	Grenzfrequenz für thermisch bedingte Reduzierung der zulässigen Wechselspannung
f_2	Frequency limit for reducing permissible AC voltage due to current limit	Grenzfrequenz für strombedingte Reduzierung der zulässigen Wechselspannung
f_r	Resonant frequency	Resonanzfrequenz
F_D	Thermal acceleration factor for diffusion	Therm. Beschleunigungsfaktor zur Diffusion
F_T	Derating factor	Deratingfaktor
i	Current (peak)	Stromspitze
I_C	Category current (max. continuous current)	Kategoriestrom (max. Dauerstrom)



Symbol	English	German
I_{RMS}	(Sinusoidal) alternating current, root-mean-square value	(Sinusförmiger) Wechselstrom
i_z	Capacitance drift	Inkonstanz der Kapazität
k_0	Pulse characteristic	Impulskennwert
L_S	Series inductance	Serieninduktivität
λ	Failure rate	Ausfallrate
λ_0	Constant failure rate during useful service life	Konstante Ausfallrate in der Nutzungsphase
λ_{test}	Failure rate, determined by tests	Experimentell ermittelte Ausfallrate
P_{diss}	Dissipated power	Abgegebene Verlustleistung
P_{gen}	Generated power	Erzeugte Verlustleistung
Q	Heat energy	Wärmeenergie
ρ	Density of water vapor in air	Dichte von Wasserdampf in Luft
R	Universal molar constant for gases	Allg. Molarkonstante für Gas
R	Ohmic resistance of discharge circuit	Ohmscher Widerstand des Entladekreises
R_i	Internal resistance	Innenwiderstand
R_{ins}	Insulation resistance	Isolationswiderstand
R_P	Parallel resistance	Parallelwiderstand
R_S	Series resistance	Serienwiderstand
S	severity (humidity test)	Schärfegrad (Feuchtetest)
t	Time	Zeit
T	Temperature	Temperatur
τ	Time constant	Zeitkonstante
$\tan \delta$	Dissipation factor	Verlustfaktor
$\tan \delta_D$	Dielectric component of dissipation factor	Dielektrischer Anteil des Verlustfaktors
$\tan \delta_P$	Parallel component of dissipation factor	Parallelanteil des Verlustfaktors
$\tan \delta_S$	Series component of dissipation factor	Serienanteil des Verlustfaktors
T_A	Ambient temperature	Umgebungstemperatur
T_{max}	Upper category temperature	Obere Kategorietemperatur
T_{min}	Lower category temperature	Untere Kategorietemperatur
t_{OL}	Operating life at operating temperature and voltage	Betriebszeit bei Betriebstemperatur und -spannung
T_{op}	Operating temperature	Betriebstemperatur
T_R	Rated temperature	Nenntemperatur
T_{ref}	Reference temperature	Referenztemperatur
t_{SL}	Reference service life	Referenz-Lebensdauer
V_{AC}	AC voltage	Wechselspannung



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General purpose (stacked/wound)

Symbol	English	German
V_C	Category voltage	Kategoriespannung
$V_{C,RMS}$	Category AC voltage	(Sinusförmige) Kategorie-Wechselspannung
V_{CD}	Corona-discharge onset voltage	Teilentlade-Einsatzspannung
V_{ch}	Charging voltage	Ladespannung
V_{DC}	DC voltage	Gleichspannung
V_{FB}	Fly-back capacitor voltage	Spannung (Flyback)
V_i	Input voltage	Eingangsspannung
V_o	Output voltage	Ausgangssspannung
V_{op}	Operating voltage	Betriebsspannung
V_p	Peak pulse voltage	Impuls-Spitzenspannung
V_{pp}	Peak-to-peak voltage Impedance	Spannungshub
V_R	Rated voltage	Nennspannung
$\hat{V}_R$	Amplitude of rated AC voltage	Amplitude der Nenn-Wechselspannung
V_{RMS}	(Sinusoidal) alternating voltage, root-mean-square value	(Sinusförmige) Wechselspannung
V_{SC}	S-correction voltage	Spannung bei Anwendung "S-correction"
V_{sn}	Snubber capacitor voltage	Spannung bei Anwendung "Beschaltung"
Z	Impedance	Scheinwiderstand
e	Lead spacing	Rastermaß

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