

Film Capacitors

Metallized Polypropylene Film Capacitors (MKP)

 Series/Type:
 B32651 ... B32658

 Date:
 November 2019

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Metallized polypropylene film capacitors (MKP)

High pulse (wound)

Typical applications

- Electronic ballasts
- Switch-mode power supplies
- IGBT
- Snubbering

Climatic

- Max. operating temperature: 110 °C
- Climatic category (IEC 60068-1:2013): 55/100/56

Construction

- Dielectric: polypropylene (PP)(MKP)
- Wound capacitor technology with internal series connection
- Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Features

- High pulse strength
- High contact reliability
- RoHS-compatible
- Very low inductance
- Halogen-free capacitors available on request
- AEC-Q200D compliant

Terminals

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

Marking

Manufacturer's logo, lot number (@ ≤27.5 mm), series number (e.g. 651), rated capacitance (coded), cap. tolerance (code letter), rated DC voltage (AC voltage for 1600 V DC/700 V AC and 2000 V DC/1000 V AC), date of manufacture (coded)

Delivery mode

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

Please read *Cautions and warnings* and *Important notes* at the end of this document. Downloaded from Arrow.com. B32651 ... B32658



B32651 ... B32658

High pulse (wound)

MKP

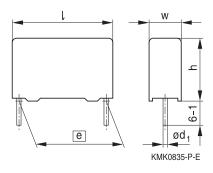
Dimensional drawings

Number of wires	Lead spacing <i>e</i> ±0.4	Lead diameter d_1 ±0.05	Туре	Drawing
2-pin	10	0.6	B32651	A1
2-pin	15	0.8	B32652	A1
2-pin	22.5	0.8	B32653	A1
2-pin	27.5	0.8	B32654	A1
2-pin	37.5	1.0	B32656A/J	A1
2-pin	37.5	1.0	B32656T	A2
4-pin	37.5	1.2	B32656G	B1
4-pin	52.5	1.2	B32658G	B1

(Dimensions in mm)

Dimensional drawings 2-pin versions

Drawing A1





	B32651	B32652	B32653	B32654	B32656A/J
Lead spacing e ±0.4:	10	15	22.5	27.5	37.5
Lead diameter d ₁ :	0.6	0.8	0.8	0.8	1.0

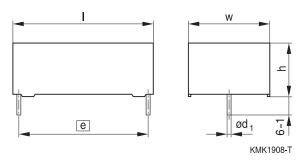
(Dimensions in mm)





B32651 ... B32658 High pulse (wound)

Drawing A2 (low profile)

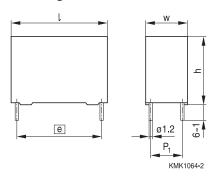


Lead spacing e ±0.4:	37.5
Lead diameter d ₁ :	1.0
·	

(Dimensions in mm)

Dimensional drawings 4-pin versions

Drawing B1



	B32656G	B32658G
Lead spacing e ±0.4:	37.5	52.5
Lead diameter d ₁ :	1.2	1.2
(Dimensions in mm)		<u>.</u>





B32651 ... B32658 High pulse (wound)

Lead spacing	10 mm
Туре	B32651
Page	12
V _R (V DC)	1250
$ \frac{V_{R} (V DC)}{V_{RMS} (V AC)} $ $ \frac{C_{R} (nF)}{2.2} $ $ 3.3 $	450
C _R (nF)	
2.2	
3.3	
4.7	
6.8	



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High pulse (wound)

Lead spacing	15 mm							
Туре	B32652							
Page	13							
V _R (V DC)	250	400	630	1000	1250	1600	1600	2000
V _{RMS} (V AC)	160	200	250	250	500	500	700	700
C _R (nF)								
1.0								
1.5								
2.2								
3.3								
4.7								
5.6								
6.8								
10								
12								
15								
22								
33								
47								
56								
68								
100								
120								
150								
220								
330								
390								
470								
560								
680								
820								
1000								



B32651 ... B32658 High pulse (wound)

Lead spacing	22.5 mm											
Туре	B32653	B32653										
Page	16											
V _R (V DC)	250	400	630	1000	1250	1600	2000	2000				
V _{RMS} (V AC)	160	200	250	250	500	500	700	1000				
C _R (nF)												
2.2												
3.3												
4.7												
6.8												
10												
12												
15												
22												
33												
47												
56												
68												
82												
100												
120												
150												
220												
330												
470												
560												
680												
1000												
1200												
1500												
2200												
3300												



B32651 ... B32658

High pulse (wound)

Lead spacing	27.5 mm						
Туре	B32654						
Page	19						
V _R (V DC)	250	400	630	1000	1250	1600	2000
V _{RMS} (V AC)	160	200	250	250	500	500	700
C _R (nF)							
22							
33							
47							
68							
82							
100							
150							
220							
330							
470							
560							
680							
820							
1000							
1200							
1500							
2200							
2700							
3300							
4700							
5600							
6800							
8200							



High pulse (wound)

B32651 ... B32658

Lead spacing	37.5 mm			
Туре	B32656			
Page	21			
V _R (V DC)	250	400	630	750
V _{RMS} (V AC)	160	200	250	350
C _R (nF)				
470				
560				
680				
820				
1000				
1200				
1500				
1800				
2000				
2200				
2500				
2700				
3000				
3300				
3500				
4000				
4700				
5600				
6800				
7000				
7500				
8000				
10000				
12000				
14000				
15000				
17000				
20000				
24000				



B32651 ... B32658

High pulse (wound)

Lead spacing	37.5 mm										
Туре	B32656										
Page	24										
V _R (V DC)	850	1000	1250	1600	2000						
V _{RMS} (V AC)	450	500	500	600	700						
C _R (nF)											
68											
100											
120											
150											
220											
270											
330											
390											
470											
560											
680											
820											
900											
1000											
1200											
1500											
1800											
2200											
2500											
2700											
3000											
3300											
3800											

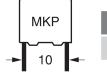


High pulse (wound)

B32651 ... B32658

Lead spacing	52.5 mn	n										
Туре	B32658	B32658										
Page	28											
V _R (V DC)	250	400	630	750	850	1000	1250	1600	2000			
V _{RMS} (V AC)	160	200	250	350	450	500	500	600	700			
C _R (nF)												
680												
820												
1000												
1200												
1500												
2000												
2200												
2700												
3300												
4500												
4700												
5600												
6000												
6800												
9000												
12000												
15000												
20000												
26000												
30000												
40000												





B32651 High pulse (wound)

Ordering codes and packing units (lead spacing 10 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times l$	(composition see	pack		
V DC ¹⁾	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
1250	450	2.2	$4.0\times 9.0\times 13.0$	B32651A7222+***	4000	6800	4000
		3.3	5.0 imes 11.0 imes 13.0	B32651A7332+***	3320	5200	4000
		4.7	5.0 imes 11.0 imes 13.0	B32651A7472+***	3320	5200	4000
		6.8	$6.0\times12.0\times13.0$	B32651A7682+***	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:

 $J = \pm 5\%$

*** = Packaging code:

- 289 = Straight terminals, Ammo pack
- 189 = Straight terminals, Reel
- 000 = Straight terminals, Untaped (standard lead length 6 -1 mm)

1) For pulse loads (pulse width \leq 1000 µs), a peak voltage of 1400 V_p can be permitted.



High pulse (wound)

B32652



Ordering codes and packing units (lead spacing 15 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times l$	(composition see	pack		
V DC	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
250	160	150	5.0 imes 10.5 imes 18.0	B32652A3154+***	4680	5200	4000
		220	$6.0\times11.0\times18.0$	B32652A3224+***	3840	4400	4000
		330	$7.0\times12.5\times18.0$	B32652A3334+***	3320	3600	4000
		470	$8.5\times14.5\times18.0$	B32652A3474+***	2720	2800	2000
		680	9.0 imes 17.5 imes 18.0	B32652A3684+***	2560	2800	2000
		820	$11.0\times18.5\times18.0$	B32652A3824+***	_	2200	1200
		1000	$11.0\times18.5\times18.0$	B32652A3105+***	_	2200	1200
400	200	68	$5.0\times10.5\times18.0$	B32652A4683+***	4680	5200	4000
		100	$5.0\times10.5\times18.0$	B32652A4104+***	4680	5200	4000
		150	$6.0\times11.0\times18.0$	B32652A4154+***	3840	4400	4000
		220	$7.0\times12.5\times18.0$	B32652A4224+***	3320	3600	4000
		330	$8.5\times14.5\times18.0$	B32652A4334+***	2720	2800	2000
		470	9.0 imes 17.5 imes 18.0	B32652A4474+***	2560	2800	2000
		560	$11.0\times18.5\times18.0$	B32652A4564+***	_	2200	1200
		680	$11.0\times18.5\times18.0$	B32652A4684+***	_	2200	1200
630	250	33	$5.0\times10.5\times18.0$	B32652A6333+***	4680	5200	4000
		47	$5.0\times10.5\times18.0$	B32652A6473+***	4680	2800	4000
		68	$6.0\times11.0\times18.0$	B32652A6683+***	3840	4400	4000
		100	$7.0\times12.5\times18.0$	B32652A6104+***	3320	3600	4000
		150	$8.5\times14.5\times18.0$	B32652A6154+***	2720	2800	2000
		220	$9.0\times17.5\times18.0$	B32652A6224+***	2560	2800	2000
		330	$11.0\times18.5\times18.0$	B32652A6334+***	—	2200	1200
		390	$11.0\times18.5\times18.0$	B32652A6394+***	_	2200	1200

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

- + = Capacitance tolerance code:
 - K = ±10%
 - $J = \pm 5\%$

- *** = Packaging code:
 - 289 = Straight terminals, Ammo pack
 - 189 = Straight terminals, Reel
 - 000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



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High pulse (wound)

Ordering codes and packing units (lead spacing 15 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times I$	(composition see	pack		
V DC	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
1000	250	10	5.0 imes10.5 imes18.0	B32652A0103+***	4680	5200	4000
		15	$5.0\times10.5\times18.0$	B32652A0153+***	4680	5200	4000
		22	$5.0\times10.5\times18.0$	B32652A0223+***	4680	5200	4000
		33	$6.0\times11.0\times18.0$	B32652A0333+***	3840	4400	4000
		47	$7.0\times12.5\times18.0$	B32652A0473+***	3320	3600	4000
		68	$8.5\times14.5\times18.0$	B32652A0683+***	2720	2800	2000
		100	$9.0\times17.5\times18.0$	B32652A0104+***	2560	2800	2000
		120	$11.0\times18.5\times18.0$	B32652A0124+***	_	2200	1200
		150	$11.0\times18.5\times18.0$	B32652A0154+***	_	2200	1200
1250	500	6.8	$5.0\times10.5\times18.0$	B32652A7682+***	4680	5200	4000
		10	$6.0\times11.0\times18.0$	B32652A7103+***	3840	4400	4000
		15	$7.0\times12.5\times18.0$	B32652A7153+***	3320	3600	4000
		22	$8.5 \times 14.5 \times 18.0$	B32652A7223+***	2720	2800	2000
		33	$9.0\times17.5\times18.0$	B32652A7333+***	2560	2800	2000
		47	$11.0\times18.5\times18.0$	B32652A7473+***	_	2200	1200
		56	$11.0\times18.5\times18.0$	B32652A7563+***	_	2200	1200
1600	500	3.3	$5.0\times10.5\times18.0$	B32652A1332+***	4680	5200	4000
		4.7	$6.0\times11.0\times18.0$	B32652A1472+***	3840	4400	4000
		6.8	$7.0\times12.5\times18.0$	B32652A1682+***	3320	3600	4000
		10	$8.5\times14.5\times18.0$	B32652A1103+***	2720	2800	2000
		15	$9.0\times17.5\times18.0$	B32652A1153+***	2560	2800	2000
		22	$11.0\times18.5\times18.0$	B32652A1223+***	_	2200	1200

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

Further E series and intermediate capacitance values on request.

- + = Capacitance tolerance code:
 - $\begin{array}{l} \mathsf{K}=\pm10\%\\ \mathsf{J}=\pm5\% \end{array}$

- *** = Packaging code:
 - 289 = Straight terminals, Ammo pack
 - 189 = Straight terminals, Reel
 - 000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



High pulse (wound)

B32652



Ordering codes and packing units (lead spacing 15 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times I$	(composition see	pack		
V DC	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
1600	700	2.2	$5.0\times10.5\times18.0$	B32652J1222+***	4680	5200	4000
		3.3	$6.0\times11.0\times18.0$	B32652J1332+***	3840	4400	4000
		4.7	$7.0\times12.5\times18.0$	B32652J1472+***	3320	3600	4000
		6.8	$8.5 \times 14.5 \times 18.0$	B32652J1682+***	2720	2800	2000
		10	$9.0\times17.5\times18.0$	B32652J1103+***	2560	2800	2000
		12	$9.0\times17.5\times18.0$	B32652J1123+***	2560	2800	2000
		15	$11.0\times18.5\times18.0$	B32652J1153+***	_	2200	1200
2000	700	1.0	$5.0\times10.5\times18.0$	B32652A2102+***	4680	5200	4000
		1.5	$6.0\times11.0\times18.0$	B32652A2152+***	3840	4400	4000
		2.2	$7.0\times12.5\times18.0$	B32652A2222+***	3320	3600	4000
		3.3	$8.5 \times 14.5 \times 18.0$	B32652A2332+***	2720	2800	2000
		4.7	$9.0\times17.5\times18.0$	B32652A2472+***	2560	2800	2000
		5.6	$9.0\times17.5\times18.0$	B32652A2562+***	—	2200	1000
		6.8	$11.0\times18.5\times18.0$	B32652A2682+***	_	2200	1200

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

Further E series and intermediate capacitance values on request.

- + = Capacitance tolerance code:
 - K = ±10%
 - $J = \pm 5\%$

- *** = Packaging code:
 - 289 = Straight terminals, Ammo pack
 - 189 = Straight terminals, Reel
 - 000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



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High pulse (wound)

Ordering codes and packing units (lead spacing 22.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times I$	(composition see	pack pcs./	pcs./	pcs./
V DC	V AC	nF	mm	below)	MOQ	MOQ	MOQ
250	160	220	$6.0\times15.0\times26.5$	B32653A3224+***	2720	2800	2880
		330	$6.0\times15.0\times26.5$	B32653A3334+***	2720	2800	2880
		470	$7.0\times16.0\times26.5$	B32653A3474+***	2320	2400	2520
		680	$8.5\times16.5\times26.5$	B32653A3684+***	1920	2000	2040
		1000	$10.5\times16.5\times26.5$	B32653A3105+***	1560	1600	2160
		1200	$10.5\times18.5\times26.5$	B32653A3125+***	1560	1600	2160
		1500	$11.0\times20.5\times26.5$	B32653A3155+***	1480	1400	2040
		2200	$14.5\times29.5\times26.5$	B32653A3225+000	—	—	1040
		3300	$14.5\times29.5\times26.5$	B32653A3335+000	—	—	1040
400	200	150	$6.0\times15.0\times26.5$	B32653A4154+***	2720	2800	2880
		220	$6.0\times15.0\times26.5$	B32653A4224+***	2720	2800	2880
		330	$7.0\times16.0\times26.5$	B32653A4334+***	2320	2400	2520
		470	$8.5\times16.5\times26.5$	B32653A4474+***	1920	2000	2040
		680	$10.5\times16.5\times26.5$	B32653A4684+***	1560	1600	2160
		1000	$11.0\times20.5\times26.5$	B32653A4105+***	1480	1400	2040
		1200	$12.0\times22.0\times26.5$	B32653A4125+000	_	_	1800
		1500	$14.5\times29.5\times26.5$	B32653A4155+000	_	_	1040
		2200	$14.5 \times 29.5 \times 26.5$	B32653A4225+000	_	_	1040
630	250	100	$6.0\times15.0\times26.5$	B32653A6104+***	2720	2800	2880
		150	$6.0\times15.0\times26.5$	B32653A6154+***	2720	2800	2880
		220	$8.5\times16.5\times26.5$	B32653A6224+***	1920	2000	2040
		330	$10.5\times16.5\times26.5$	B32653A6334+***	1560	1600	2160
		470	$11.0\times20.5\times26.5$	B32653A6474+***	1480	1400	2040
		560	$11.0\times20.5\times26.5$	B32653A6564+***	1480	1400	2040
		680	$14.5\times29.5\times26.5$	B32653A6684+000	—	—	1040
		1000	$14.5\times29.5\times26.5$	B32653A6105+000	_		1040
		1200	$14.5\times29.5\times26.5$	B32653A6125+000	-	—	1040

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:

 $K = \pm 10\%$

 $J = \pm 5\%$

- *** = Packaging code:
 - 289 = Straight terminals, Ammo pack
 - 189 = Straight terminals, Reel
 - 000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



B32653 High pulse (wound)



Ordering codes and packing units (lead spacing 22.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times I$	(composition see	pack pcs./	pcs./	pcs./
V DC	V AC	nF	mm	below)	MOQ	MOQ	MOQ
1000	250	33	$6.0\times15.0\times26.5$	B32653A0333+***	2720	2800	2880
		47	$6.0\times15.0\times26.5$	B32653A0473+***	2720	2800	2880
		68	$6.0\times15.0\times26.5$	B32653A0683+***	2720	2800	2880
		100	$8.5\times16.5\times26.5$	B32653A0104+***	1920	2000	2040
		150	$10.5\times16.5\times26.5$	B32653A0154+***	1560	1600	2160
		220	$11.0\times20.5\times26.5$	B32653A0224+***	1480	1400	2040
		330	$14.5\times29.5\times26.5$	B32653A0334+000	—	—	1040
		470	$14.5\times29.5\times26.5$	B32653A0474+000	—	—	1040
		560	$14.5 \times 29.5 \times 26.5$	B32653A0564+000	—	—	1040
1250	500	22	$6.0\times15.0\times26.5$	B32653A7223+***	2720	2800	2880
		33	$6.0\times15.0\times26.5$	B32653A7333+***	2720	2800	2880
		47	$8.5 \times 16.5 \times 26.5$	B32653A7473+***	1920	2000	2040
		68	$10.5\times16.5\times26.5$	B32653A7683+***	1560	1600	2160
		100	$11.0\times20.5\times26.5$	B32653A7104+***	1480	1400	2040
		120	$12.0\times22.0\times26.5$	B32653A7124+000	_	-	1800
		150	$14.5 \times 29.5 \times 26.5$	B32653A7154+000	_	-	1040
		220	$14.5 \times 29.5 \times 26.5$	B32653A7224+000	_	_	1040
1600	500	6.8	$6.0\times15.0\times26.5$	B32653A1682+***	2720	2800	2880
		10	$6.0\times15.0\times26.5$	B32653A1103+***	2720	2800	2880
		15	$7.0\times16.0\times26.5$	B32653A1153+***	2320	2400	2520
		22	$8.5 \times 16.5 \times 26.5$	B32653A1223+***	1920	2000	2040
		33	$10.5\times16.5\times26.5$	B32653A1333+***	1560	1600	2160
		47	$11.0\times20.5\times26.5$	B32653A1473+***	1480	1400	2040
		56	$12.0\times22.0\times26.5$	B32653A1563+000	—	—	1800
		68	$14.5\times29.5\times26.5$	B32653A1683+000	—	—	1040
		82	$14.5\times29.5\times26.5$	B32653A1823+000	—	—	1040
		100	$14.5\times29.5\times26.5$	B32653A1104+000	_	_	1040

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:

 $K = \pm 10\%$

 $J = \pm 5\%$

- *** = Packaging code:
 - 289 = Straight terminals, Ammo pack
 - 189 = Straight terminals, Reel
 - 000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



MKP ► 22.5

B32653

High pulse (wound)

Ordering codes and packing units (lead spacing 22.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f≤1 kHz		$w \times h \times I$	(composition see	pack pcs./	pcs./	pcs./
V DC	V AC	nF	mm	below)	MOQ	MOQ	MOQ
2000	700	3.3	$6.0\times15.0\times26.5$	B32653A2332+***	2720	2800	2880
		4.7	$6.0\times15.0\times26.5$	B32653A2472+***	2720	2800	2880
		6.8	$8.5\times16.5\times26.5$	B32653A2682+***	1920	2000	2040
		10	$10.5\times16.5\times26.5$	B32653A2103+***	1560	1600	2160
		15	$11.0\times20.5\times26.5$	B32653A2153+***	1480	1400	2040
		22	$14.5\times29.5\times26.5$	B32653A2223+000	-	—	1040
		33	$14.5 \times 29.5 \times 26.5$	B32653A2333+000	—	—	1040
2000	1000	2.2	$6.0\times15.0\times26.5$	B32653A8222+***	2720	2800	2880
		3.3	$6.0\times15.0\times26.5$	B32653A8332+***	2720	2800	2880
		4.7	$8.5\times16.5\times26.5$	B32653A8472+***	1920	2000	2040
		6.8	$10.5\times16.5\times26.5$	B32653A8682+***	1560	1600	2160
		10	$10.5\times20.5\times26.5$	B32653A8103+***	1560	1600	2160
		12	$12.0\times22.0\times26.5$	B32653A8123+000	-	-	1800
		15	$14.5\times29.5\times26.5$	B32653A8153+000	—	_	1040
		22	$14.5\times29.5\times26.5$	B32653A8223+000	_	_	1040

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:
 - $K = \pm 10\%$
 - $J = \pm 5\%$

*** = Packaging code:

- 289 = Straight terminals, Ammo pack
- 189 = Straight terminals, Reel
- 000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



B32654 High pulse (wound)



Ordering codes and packing units (lead spacing 27.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times l$	(composition see	pack pcs./	pcs./	pcs./
V DC	V AC	nF	mm	below)	MOQ	MOQ	MOQ
250	160	1500	$11.0 \times 21.0 \times 31.5$	B32654A3155+***	_	1400	1280
		2200	$12.5 \times 21.5 \times 31.5$	B32654A3225+***	_	1200	1120
		3300	$15.0\times24.5\times31.5$	B32654A3335+000	_	_	960
		4700	$18.0\times27.5\times31.5$	B32654A3475+000	_	_	800
		5600	$19.0\times30.0\times31.5$	B32654A3565+000	_	_	720
		6800	$22.0\times36.5\times31.5$	B32654A3685+000	_	_	640
		8200	$22.0\times36.5\times31.5$	B32654A3825+000	_	_	640
400	200	1000	$11.0\times21.0\times31.5$	B32654A4105+***	_	1400	1280
		1500	$12.5\times21.5\times31.5$	B32654A4155+***	—	1200	1120
		2200	$14.0\times24.5\times31.5$	B32654A4225+***	—	1000	1040
		3300	$19.0\times30.0\times31.5$	B32654A4335+000	—	_	720
		4700	$22.0\times36.5\times31.5$	B32654A4475+000	—	-	640
		5600	$22.0\times36.5\times31.5$	B32654A4565+000	_	—	640
630	250	680	$11.0\times21.0\times31.5$	B32654A6684+***	_	1400	1280
		1000	$13.5\times23.0\times31.5$	B32654A6105+***	—	1000	1040
		1500	$18.0\times27.5\times31.5$	B32654A6155+000	—	-	800
		2200	$18.0\times33.0\times31.5$	B32654A6225+000	—	-	800
		2700	$22.0\times36.5\times31.5$	B32654A6275+000	—	-	640
		3300	$22.0\times36.5\times31.5$	B32654A6335K000	—	—	640
1000	250	220	$11.0\times21.0\times31.5$	B32654A0224+***	_	1400	1280
		330	$11.0 \times 21.0 \times 31.5$	B32654A0334+***	—	1400	1280
		470	$14.0\times24.5\times31.5$	B32654A0474+***	—	1000	1040
		680	$18.0\times27.5\times31.5$	B32654A0684+000	—	_	800
		820	$19.0\times30.0\times31.5$	B32654A0824+000	—	_	720
		1000	$21.0\times31.0\times31.5$	B32654A0105+000	—	—	720
		1200	$22.0\times 36.5\times 31.5$	B32654A0125+000	—	-	640
		1500	$22.0\times36.5\times31.5$	B32654A0155K000	_	_	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:

K = ±10%

 $J = \pm 5\%$

*** = Packaging code:

189 = Straight terminals, Reel

000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



MKP ≥ 27.5

B32654

High pulse (wound)

Ordering codes and packing units (lead spacing 27.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	Ordering code	Ammo	Reel	Untaped
	f ≤1 kHz		$w \times h \times l$	(composition see	pack pcs./	pcs./	pcs./
V DC	V AC	nF	mm	below)	MOQ	MOQ	MOQ
1250	500	100	$11.0 \times 21.0 \times 31.5$	B32654A7104+***	_	1400	1280
		150	$11.0 \times 21.0 \times 31.5$	B32654A7154+***	_	1400	1280
		220	$14.0\times24.5\times31.5$	B32654A7224+***	_	1000	1040
		330	$18.0\times27.5\times31.5$	B32654A7334+000	—	—	800
		470	$21.0\times31.0\times31.5$	B32654A7474+000	—	—	720
		560	$22.0\times36.5\times31.5$	B32654A7564+000	—	—	640
		680	$22.0\times36.5\times31.5$	B32654A7684+000	_	_	640
1600	500	47	$11.0 \times 21.0 \times 31.5$	B32654A1473+***	—	1400	1280
		68	$11.0 \times 21.0 \times 31.5$	B32654A1683+***	_	1400	1280
		100	$14.0\times24.5\times31.5$	B32654A1104+***	_	1000	1040
		150	$18.0\times27.5\times31.5$	B32654A1154+000	_	_	800
		220	$21.0\times31.0\times31.5$	B32654A1224+000	_	_	720
2000	700	22	$11.0 \times 21.0 \times 31.5$	B32654A2223+***	_	1400	1280
		33	$13.5\times23.0\times31.5$	B32654A2333+***	_	1000	1040
		47	$18.0\times27.5\times31.5$	B32654A2473+000	_	_	800
		68	$19.0\times30.0\times31.5$	B32654A2683+000	-	-	720
		82	$22.0\times36.5\times31.5$	B32654A2823+000	_	-	640
		100	$22.0\times36.5\times31.5$	B32654A2104+000	—	_	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:

- K = ±10%
- $J = \pm 5\%$

*** = Packaging code:

189 = Straight terminals, Reel

000 = Straight terminals, Untaped (standard lead length 6 -1 mm)



B32656 High pulse (wound)



Ordering codes and packing units (lead spacing 37.5 mm)

V_{R}	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f≤1 kHz		$w \times h \times I$		(composition see	
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
250	160	2700	$12.0\times22.0\times42.0$	_	B32656A3275+000	1620
		3000	$12.0\times22.0\times42.0$	—	B32656A3305+000	1620
		3300	$14.0\times25.0\times42.0$	—	B32656A3335+000	1380
		4000	$14.0\times25.0\times42.0$	_	B32656A3405+000	1380
		4000	$24.0 \times 15.0 \times 42.0$	_	B32656T3405+000	1040
		4700	$16.0 \times 28.5 \times 42.0$	—	B32656A3475+000	800
		5600	$16.0 \times 28.5 \times 42.0$	—	B32656A3565+000	800
		5600	$24.0\times19.0\times42.0$	—	B32656T3565+000	780
		6800	$18.0\times32.5\times42.0$	—	B32656A3685+000	720
		8000	$18.0\times32.5\times42.0$	-	B32656A3805+000	720
		10000	$20.0\times39.5\times42.0$	10.2	B32656G3106+000	640
		10000	$20.0\times39.5\times42.0$	—	B32656A3106+000	640
		12000	$20.0\times39.5\times42.0$	10.2	B32656G3126K000	640
		12000	$20.0\times39.5\times42.0$	—	B32656A3126K000	640
		15000	$28.0\times37.0\times42.0$	10.2	B32656G3156K000	440
		15000	$28.0\times37.0\times42.0$	—	B32656A3156K000	440
		17000	$28.0\times42.5\times42.0$	10.2	B32656G3176+000	440
		17000	$28.0\times42.5\times42.0$	—	B32656A3176+000	440
		20000	$30.0\times45.0\times42.0$	20.3	B32656G3206+000	400
		20000	$30.0\times45.0\times42.0$	_	B32656A3206+000	400
		24000	$33.0\times48.0\times42.0$	20.3	B32656G3246+000	180
		24000	$33.0\times48.0\times42.0$	—	B32656A3246+000	180

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:

 $\begin{array}{l} \mathsf{K}=\pm10\%\\ \mathsf{J}=\pm5\% \end{array}$



МКР 37.5 ◄

B32656

High pulse (wound)

Ordering codes and packing units (lead spacing 37.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f ≤1 kHz		$w \times h \times l$		(composition see	•
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
400	200	2000	$12.0 \times 22.0 \times 42.0$	_	B32656A4205+000	1620
		2700	$14.0 \times 25.0 \times 42.0$	_	B32656A4275+000	1380
		2700	$24.0\times15.0\times42.0$	_	B32656T4275+000	1040
		3500	$24.0\times19.0\times42.0$	_	B32656T4355+000	780
		4000	16.0 imes 28.5 imes 42.0	_	B32656A4405+000	800
		5600	$18.0\times32.5\times42.0$	_	B32656A4565+000	720
		7500	$20.0\times 39.5\times 42.0$	10.2	B32656G4755+000	640
		7500	$20.0\times 39.5\times 42.0$	—	B32656A4755+000	640
		10000	$28.0\times37.0\times42.0$	10.2	B32656G4106+000	440
		10000	$28.0\times37.0\times42.0$	_	B32656A4106+000	440
		12000	$28.0\times42.5\times42.0$	10.2	B32656G4126+000	440
		12000	$28.0\times42.5\times42.0$	—	B32656A4126+000	440
		14000	$30.0 \times 45.0 \times 42.0$	20.3	B32656G4146+000	400
		14000	$30.0\times45.0\times42.0$	_	B32656A4146+000	400
		17000	$33.0\times48.0\times42.0$	20.3	B32656G4176+000	180
		17000	$33.0\times48.0\times42.0$	_	B32656A4176+000	180
630	250	1000	$12.0\times22.0\times42.0$	_	B32656A6105+000	1620
		1500	$14.0\times25.0\times42.0$	—	B32656A6155+000	1380
		1500	$24.0\times15.0\times42.0$	—	B32656T6155+000	1040
		2200	$16.0\times28.5\times42.0$	—	B32656A6225+000	800
		2200	$24.0\times19.0\times42.0$	—	B32656T6225+000	780
		3000	$18.0\times32.5\times42.0$	—	B32656A6305+000	720
		4000	$20.0\times 39.5\times 42.0$	10.2	B32656G6405+000	640
		4000	$20.0\times 39.5\times 42.0$	—	B32656A6405+000	640
		5600	$28.0\times37.0\times42.0$	10.2	B32656G6565+000	440
		5600	$28.0\times37.0\times42.0$	—	B32656A6565+000	440
		7000	$28.0\times42.5\times42.0$	10.2	B32656G6705K000	440
		7000	$28.0\times42.5\times42.0$	—	B32656A6705K000	440
		8000	$30.0\times45.0\times42.0$	20.3	B32656G6805+000	400
		8000	$30.0\times45.0\times42.0$	_	B32656A6805+000	400
		10000	$33.0\times48.0\times42.0$	20.3	B32656G6106K000	180
		10000	$33.0\times48.0\times42.0$	_	B32656A6106K000	180

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:

$$K = \pm 10\%$$

$$J = \pm 5\%$$



High pulse (wound)

B32656



Ordering codes and packing units (lead spacing 37.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f ≤1 kHz		$w \times h \times I$		(composition see	
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
750	350	470	$12.0\times22.0\times42.0$	_	B32656A5474+000	1620
		560	$12.0\times22.0\times42.0$	—	B32656A5564+000	1620
		680	$12.0\times22.0\times42.0$	_	B32656A5684+000	1620
		820	$14.0\times25.0\times42.0$	—	B32656A5824+000	1380
		1000	$16.0\times28.5\times42.0$	_	B32656A5105+000	800
		1000	$24.0 \times 15.0 \times 42.0$	_	B32656T5105K000	1040
		1200	$16.0\times28.5\times42.0$	_	B32656A5125+000	800
		1200	$24.0\times19.0\times42.0$	—	B32656T5125+000	780
		1500	$18.0\times32.5\times42.0$	—	B32656A5155+000	720
		1800	$18.0\times32.5\times42.0$	—	B32656A5185+000	720
		2200	$20.0\times 39.5\times 42.0$	10.2	B32656G5225+000	640
		2200	$20.0\times 39.5\times 42.0$	—	B32656A5225+000	640
		2500	$20.0\times 39.5\times 42.0$	10.2	B32656G5255+000	640
		2500	$20.0\times 39.5\times 42.0$	—	B32656A5255+000	640
		2700	$28.0\times37.0\times42.0$	10.2	B32656G5275+000	440
		2700	$28.0\times37.0\times42.0$	—	B32656A5275+000	440
		3300	$28.0\times37.0\times42.0$	10.2	B32656G5335+000	440
		3300	$28.0\times37.0\times42.0$	—	B32656A5335+000	440
		4000	$28.0\times42.5\times42.0$	10.2	B32656G5405+000	440
		4000	$28.0\times42.5\times42.0$	_	B32656A5405+000	440
		4700	$30.0\times45.0\times42.0$	20.3	B32656G5475+000	400
		4700	$30.0 \times 45.0 \times 42.0$	-	B32656A5475+000	400
		5600	$33.0\times48.0\times42.0$	20.3	B32656G5565+000	180
		5600	$33.0\times48.0\times42.0$	_	B32656A5565+000	180

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:

K = ±10%

 $J = \pm 5\%$



MKP ► 37.5 ◄

B32656

High pulse (wound)

Ordering codes and packing units (lead spacing 37.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f≤1 kHz		$w \times h \times I$		(composition see	
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
850	450	220	$12.0\times22.0\times42.0$	_	B32656A8224+000	1620
		330	$12.0\times22.0\times42.0$	_	B32656A8334+000	1620
		470	$12.0\times22.0\times42.0$	_	B32656A8474+000	1620
		680	$16.0\times28.5\times42.0$	—	B32656A8684+000	800
		680	$24.0\times15.0\times42.0$	—	B32656T8684+000	1040
		820	$24.0\times19.0\times42.0$	—	B32656T8824+000	780
		1000	$18.0\times32.5\times42.0$	—	B32656A8105+000	720
		1200	$18.0\times32.5\times42.0$	—	B32656A8125+000	720
		1500	$20.0\times 39.5\times 42.0$	10.2	B32656G8155+000	640
		1500	$20.0\times 39.5\times 42.0$	—	B32656A8155+000	640
		1800	$20.0\times 39.5\times 42.0$	10.2	B32656G8185+000	640
		1800	$20.0\times 39.5\times 42.0$	—	B32656A8185+000	640
		2200	$28.0\times37.0\times42.0$	10.2	B32656G8225+000	440
		2200	$28.0\times37.0\times42.0$	—	B32656A8225+000	440
		2500	$28.0\times42.5\times42.0$	10.2	B32656G8255+000	440
		2500	$28.0\times42.5\times42.0$	—	B32656A8255+000	440
		2700	$30.0\times45.0\times42.0$	20.3	B32656G8275+000	400
		2700	$30.0\times45.0\times42.0$	_	B32656A8275+000	400
		3000	$30.0\times45.0\times42.0$	20.3	B32656G8305+000	400
		3000	$30.0\times45.0\times42.0$	_	B32656A8305+000	400
		3300	$33.0\times48.0\times42.0$	20.3	B32656G8335+000	180
		3300	$33.0\times48.0\times42.0$	_	B32656A8335+000	180
		3800	$33.0\times48.0\times42.0$	20.3	B32656G8385+000	180
		3800	$33.0\times48.0\times42.0$	_	B32656A8385+000	180

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:

 $K = \pm 10\%$

 $J=~\pm5\%$



B32656 High pulse (wound)



Ordering codes and packing units (lead spacing 37.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f≤1 kHz		$w \times h \times I$		(composition see	
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
1000	500	330	$12.0\times22.0\times42.0$	_	B32656A0334+000	1620
		470	$14.0\times25.0\times42.0$	—	B32656A0474+000	1380
		470	$24.0\times15.0\times42.0$	—	B32656T0474+000	1040
		680	$16.0 \times 28.5 \times 42.0$	—	B32656A0684+000	800
		680	$24.0\times19.0\times42.0$	—	B32656T0684+000	780
		1000	$20.0\times39.5\times42.0$	10.2	B32656G0105+000	640
		1000	$20.0\times39.5\times42.0$	—	B32656A0105+000	640
		1200	$28.0\times37.0\times42.0$	10.2	B32656G0125+000	440
		1200	$28.0\times37.0\times42.0$	—	B32656A0125+000	440
		1500	$28.0\times37.0\times42.0$	10.2	B32656G0155+000	440
		1500	$28.0\times37.0\times42.0$	_	B32656A0155+000	440
		2200	$30.0\times45.0\times42.0$	20.3	B32656G0225+000	400
		2200	$30.0 \times 45.0 \times 42.0$	_	B32656A0225+000	400
		2700	$30.0 \times 45.0 \times 42.0$	20.3	B32656G0275M000	400
		2700	30.0 imes 45.0 imes 42.0	_	B32656A0275M000	400
		2700	$33.0 \times 48.0 \times 42.0$	20.3	B32656G0275+000	180
		2700	$33.0\times48.0\times42.0$	_	B32656A0275+000	180

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

- + = Capacitance tolerance code:
 - $\begin{array}{l} \mathsf{K}=\pm10\%\\ \mathsf{J}=\pm5\% \end{array}$



MKP 37.5

B32656

High pulse (wound)

Ordering codes and packing units (lead spacing 37.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f≤1 kHz		$w \times h \times I$		(composition see	
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
1250	500	150	$12.0\times22.0\times42.0$	_	B32656A7154+000	1620
		220	$14.0\times25.0\times42.0$	_	B32656A7224+000	1380
		270	$24.0\times15.0\times42.0$	_	B32656T7274+000	1040
		330	$16.0 \times 28.5 \times 42.0$	_	B32656A7334+000	800
		390	$24.0\times19.0\times42.0$	_	B32656T7394+000	780
		470	$18.0\times32.5\times42.0$	_	B32656A7474+000	720
		680	$20.0\times 39.5\times 42.0$	10.2	B32656G7684+000	640
		680	$20.0\times 39.5\times 42.0$	—	B32656A7684+000	640
		820	$28.0\times37.0\times42.0$	10.2	B32656G7824+000	440
		820	$28.0\times37.0\times42.0$	_	B32656A7824+000	440
		1000	$28.0\times37.0\times42.0$	10.2	B32656G7105+000	440
		1000	$28.0\times37.0\times42.0$	_	B32656A7105+000	440
		1200	$28.0\times42.5\times42.0$	10.2	B32656G7125+000	440
		1200	$28.0\times42.5\times42.0$	_	B32656A7125+000	440
		1500	$30.0\times45.0\times42.0$	20.3	B32656G7155+000	400
		1500	$30.0\times45.0\times42.0$	-	B32656A7155+000	400
		1800	$33.0\times48.0\times42.0$	20.3	B32656G7185K000	180
		1800	$33.0\times48.0\times42.0$	_	B32656A7185K000	180

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:

 $K = \pm 10\%$

 $J = \pm 5\%$



High pulse (wound)

B32656



Ordering codes and packing units (lead spacing 37.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f ≤1 kHz		$w \times h \times I$		(composition see	
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
1600	600	100	$12.0 \times 22.0 \times 42.0$	_	B32656J1104+000	1620
		150	$14.0 \times 25.0 \times 42.0$	_	B32656J1154+000	1380
		150	$24.0 \times 15.0 \times 42.0$	_	B32656T1154+000	1040
		220	$16.0\times28.5\times42.0$	_	B32656J1224+000	800
		220	$24.0\times19.0\times42.0$	_	B32656T1224+000	780
		330	$20.0\times 39.5\times 42.0$	10.2	B32656G1334+000	640
		330	$20.0\times 39.5\times 42.0$	_	B32656J1334+000	640
		470	$28.0\times37.0\times42.0$	10.2	B32656G1474+000	440
		470	$28.0\times37.0\times42.0$	—	B32656J1474+000	440
		560	$28.0\times37.0\times42.0$	10.2	B32656G1564+000	440
		560	$28.0\times37.0\times42.0$	—	B32656J1564+000	440
		680	$28.0\times42.5\times42.0$	10.2	B32656G1684+000	440
		680	$28.0\times42.5\times42.0$	—	B32656J1684+000	440
		820	$30.0\times45.0\times42.0$	20.3	B32656G1824+000	400
		820	$30.0\times45.0\times42.0$	—	B32656J1824+000	400
		900	$33.0\times48.0\times42.0$	20.3	B32656G1905+000	180
		900	$33.0\times48.0\times42.0$	_	B32656J1905+000	180
2000	700	68	$12.0\times22.0\times42.0$	—	B32656J2683+000	1620
		100	$14.0\times25.0\times42.0$	—	B32656J2104+000	1380
		100	$24.0\times15.0\times42.0$	—	B32656T2104+000	1040
		120	$24.0\times19.0\times42.0$	-	B32656T2124+000	780
		150	$18.0\times32.5\times42.0$	-	B32656J2154+000	720
		220	$20.0\times39.5\times42.0$	10.2	B32656G2224+000	640
		220	$20.0\times39.5\times42.0$	—	B32656J2224+000	640
		330	$28.0\times37.0\times42.0$	10.2	B32656G2334+000	440
		330	$28.0\times37.0\times42.0$	-	B32656J2334+000	440
		470	$30.0\times45.0\times42.0$	20.3	B32656G2474+000	400
		470	$30.0\times45.0\times42.0$	-	B32656J2474+000	400
		560	$33.0\times48.0\times42.0$	20.3	B32656G2564+000	180
		560	$33.0\times48.0\times42.0$	—	B32656J2564+000	180

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:

 $K = \pm 10\%$

 $J = \pm 5\%$



MKP ► 52.5 ◄

B32658

High pulse (wound)

Ordering codes and packing units (lead spacing 52.5 mm)

V _R	V _{RMS}	C _R	Max. dimensions	P ₁	Ordering code	Untaped
	f≤1 kHz		$w \times h \times I$		(composition see	
V DC	V AC	nF	mm	mm	below)	pcs./MOQ
250	160	30000	$30.0\times45.0\times57.5$	20.3	B32658G3306+000	280
		40000	$35.0\times50.0\times57.5$	20.3	B32658G3406K000	108
400	200	20000	$30.0\times45.0\times57.5$	20.3	B32658G4206+000	280
		26000	$35.0\times50.0\times57.5$	20.3	B32658G4266+000	108
630	250	12000	$30.0\times45.0\times57.5$	20.3	B32658G6126K000	280
		15000	$35.0\times50.0\times57.5$	20.3	B32658G6156+000	108
750	350	6800	$30.0\times45.0\times57.5$	20.3	B32658G5685+000	280
		9000	$35.0\times50.0\times57.5$	20.3	B32658G5905+000	108
850	450	4700	$30.0\times45.0\times57.5$	20.3	B32658G8475+000	280
		5600	$35.0\times50.0\times57.5$	20.3	B32658G8565+000	108
		6000	$35.0\times50.0\times57.5$	20.3	B32658G8605+000	108
1000	500	3300	$30.0\times45.0\times57.5$	20.3	B32658G0335+000	280
		4500	$35.0\times50.0\times57.5$	20.3	B32658G0455+000	108
1250	500	2000	$30.0\times45.0\times57.5$	20.3	B32658G7205+000	280
		2200	$35.0\times50.0\times57.5$	20.3	B32658G7225+000	108
		2700	$35.0\times50.0\times57.5$	20.3	B32658G7275+000	108
1600	600	1000	$30.0\times45.0\times57.5$	20.3	B32658G1105+000	280
		1200	$30.0\times45.0\times57.5$	20.3	B32658G1125K000	280
		1500	$35.0\times50.0\times57.5$	20.3	B32658G1155+000	108
2000	700	680	$30.0\times45.0\times57.5$	20.3	B32658G2684+000	280
		820	$35.0\times50.0\times57.5$	20.3	B32658G2824+000	108
		1000	$35.0\times50.0\times57.5$	20.3	B32658G2105K000	108

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:

 $\begin{array}{l} \mathsf{K}=\pm10\%\\ \mathsf{J}=\pm5\% \end{array}$



B32651 ... B32658 High pulse (wound) MKP

Technical data

Reference standard: IEC 60384-16:2005 and AEC-Q200D. All data given at T = 20 $^{\circ}$ C, unless otherwise specified.

Operating temperature range	_	-	mperature $T_{op,max}$	+110 °C		
		•••	emperature T _{max}	+100 °C		
	Lower ca	tegory te	emperature T _{min}	−55 °C		
	Rated ter	nperatur	e T _R	+85 °C		
Dissipation factor $tan\delta(in10^{\text{-3}})$	at	≤27 nF	27 nF <c<sub>R≤0.1 μF</c<sub>	$0.1 \ \mu\text{F} < C_R \le 1 \ \mu\text{F}$	$C_R > 1 \mu F$	
at 20 °C (upper limit values)	1 kHz	0.8	0.8	0.8	0.8	
	10 kHz	1.0	1.0	1.0	_	
	100 kHz	2.0	3.0	_	_	
Insulation resistance R _{ins}	$C_{R} \leq 0.33$	βμF	C _R > 0.33 μF			
or time constant $\tau = C_R \cdot R_{ins}$	100 GΩ		30000 s			
at 20 °C, rel. humidity \leq 65%						
(minimum as-delivered values)						
DC test voltage	$1.6 \cdot V_R$,	2 s				
Capacitance tolerance codes	$J = \pm 5\%$					
	$K = \pm 10\%$					
-	$M = \pm 20\%$					
Category voltage V _c	T _{op} (°C) DC voltage derating			AC voltage derating		
(continuous operation with	$T_{op} \le 85$	$V_{\rm C} =$	V _R	V _{C,RMS} =V _{RMS}		
V_{DC} or V_{AC} at f \leq 1 kHz)	85< $T_{op} \le 100$ V _C = V _R · (165- T_{op})/80			$V_{C,RMS} = V_{RMS} \cdot (165 - T_{op})/80$		
Operating voltage V_{op} for	T _{op} (°C) DC voltage (max. hours)			AC voltage (max	. hours)	
short operating periods	$T_{op} \le 85$ $V_{op} = 1.25 \cdot V_{C} (2000 \text{ h})$			$V_{op} = 1.0 \cdot V_{C,RMS}$	(2000 h)	
$(V_{DC} \text{ or } V_{AC} \text{ at } f \le 1 \text{ kHz})$	85 <t<sub>op\leq100 V_{op} = 1.25 · V_C (1000 h)</t<sub>			$V_{op} = 1.0 \cdot V_{C,RMS}$	(1000 h)	
Biased humidity	1000 h / 4	40 °C / 9	3% relative humidity	/ with V _{R,DC}		
Limit values after biased	Capacitance change $ \Delta C/C \leq 5\%$					
humidity test	Dissipation factor change Δ tan δ			\leq 2.0 \cdot 10 ⁻³ (at 1 kHz)		
	Insulatior	n resistar	nce R _{ins}	\geq 50% of minimum		
	or time co	onstant τ	$= C_R \cdot R_{ins}$	as-delivered values		
Reliability:	1 fit (≤ 1 · 10 ⁻⁹ /h) at 0.5 · V _R , 40 °C					
Failure rate λ	200 000	h at 1.0	V _R , 85 °C			
Service life t _{SL}	For conversion to other operating conditions and tem					
Failure criteria:	refer to chapter "Quality, 2 Reliability".					
Total failure	Short circ					
Failure due to variation		-	nge ∆C/C	> 10%		
of parameters				> $4 \cdot \text{upper limit value}$		
•	Dissipation factor tan δ Insulation resistance R _{ins}			< 1500 M Ω (C _R ≤ 0.33 µF)		
	or time constant $\tau = C_R \cdot R_{ins}$			$< 500 \text{ s} (C_R > 0.33 \mu\text{F})$		





B32651 ... B32658

High pulse (wound)

Pulse handling capability

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

 $^{"}k_{0}"$ represents the maximum permissible pulse characteristic of the waveform applied to the capacitor, expressed in $V^{2}/\mu s.$

Note:

The values of dV/dt and k_0 provided below must not be exceeded in order to avoid damaging the capacitor.

Lead spacing		10 mm	15 mm	22.5 mm	27.5 mm	37.5 mm	52.5 mm				
V _R	V _{RMS}	N // H · · · ·	.,	·	·	·					
V DC	V AC	dV/dt in V	dV/dt in V/μs								
250	160	-	200	120	50	36	24				
400	200	-	300	180	100	55	36				
630	250	-	400	300	150	80	50				
750	350	_	_	—	_	250	160				
850	450	-	-	—	-	340	220				
1000	250	-	975	600	300	-	-				
	500	_	-	—	-	400	265				
1250	450	4000	-	—	-	_	-				
	500	_	1850	1150	600	500	350				
1600	500	-	4500	2400	1000	-	-				
	600	-	-	—	-	600	400				
	700	_	5200	-	-	_	-				
2000	700	_	8000	7000	2300	700	475				
	1000	_	-	7500	_	_	_				

dV/dt values



В32651 ... В32658 МКР

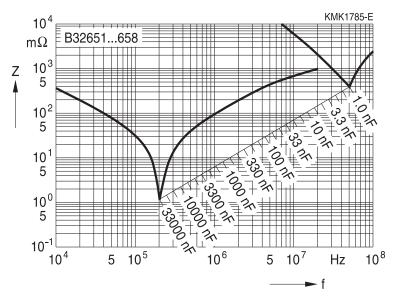
High pulse (wound)

k₀ values

Lead spacing		10 mm	15 mm	22.5 mm	27.5 mm	37.5 mm	52.5 mm
V _R	V_{RMS}			•			
V DC	V AC	k_0 in V²/µs					
250	160	—	100 000	60 000	25 000	18 000	12 000
400	200	—	250 000	200 000	110 000	44 000	28 800
630	250	_	500 000	350 000	250 000	100 800	63 000
750	350	—	_	—	_	375 000	240 000
850	450	_	_	_	_	578 000	374 000
1000	250	—	3 000 000	1 500 000	1 000 000	_	_
	500	_	—	_	_	800 000	530 000
1250	450	25 000 000	—	—	_	_	_
	500	_	9 000 000	3 750 000	2 000 000	1 250 000	875 000
1600	500	—	20 000 000	10 000 000	4 000 000	_	_
	600	_	—	_	_	1 920 000	1 280 000
	700	_	28 000 000	_	—	_	—
2000	700	—	60 000 000	40 000 000	15 000 000	2 800 000	1 900 000
	1000	_	_	50 000 000	—	_	_

Impedance Z versus frequency f

(typical values)





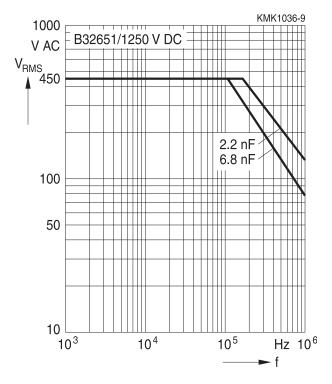


Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)

For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 10 mm





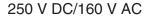


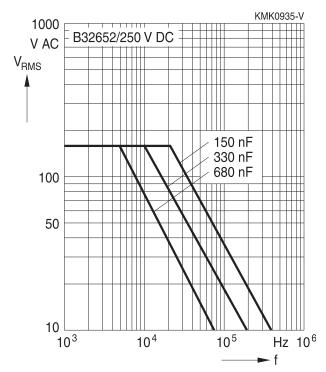


Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, T_A \leq 90 °C)

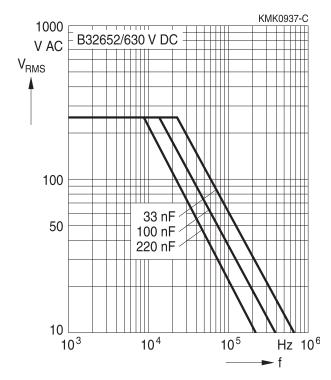
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 15 mm

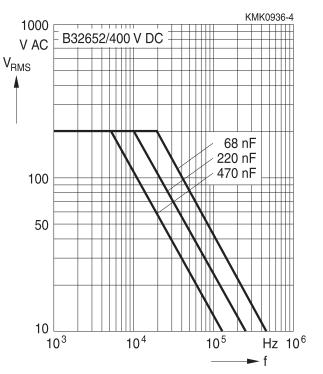


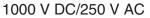


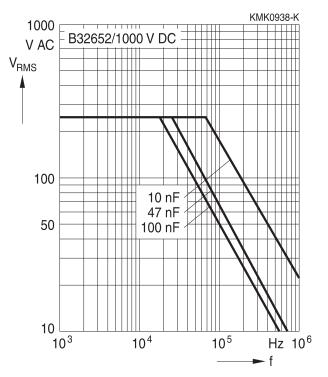
630 V DC/250 V AC



400 V DC/200 V AC







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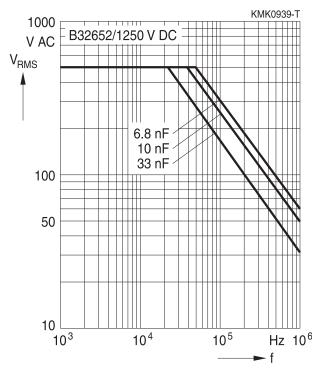


Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)

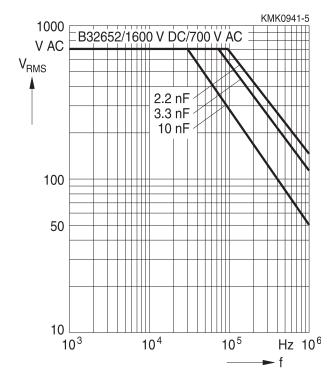
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 15 mm

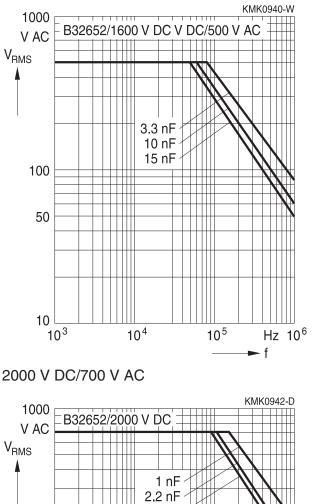


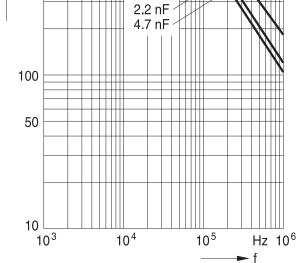


1600 V DC/700 V AC



1600 V DC/500 V AC





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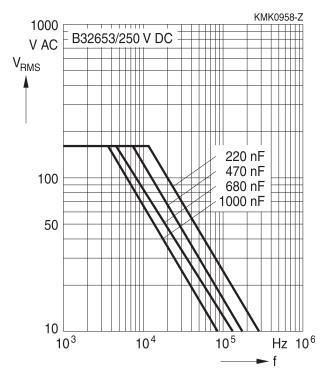


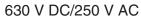
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, T_A \leq 90 °C)

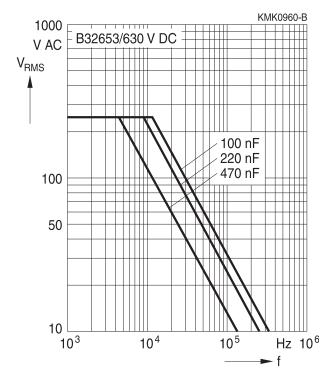
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 22.5 mm

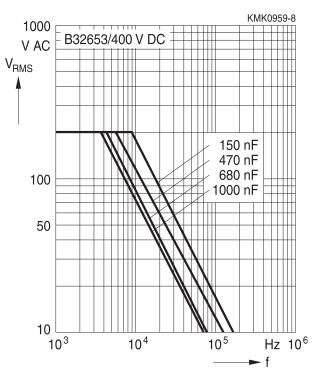
250 V DC/160 V AC

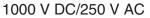


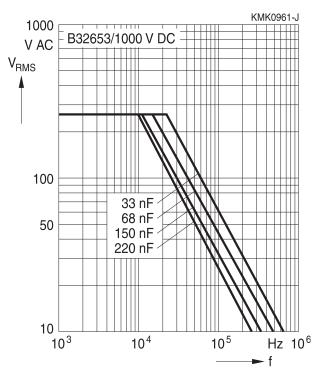




400 V DC/200 V AC







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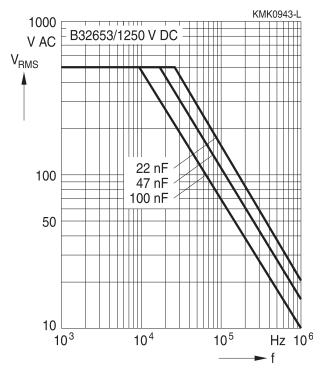


Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)

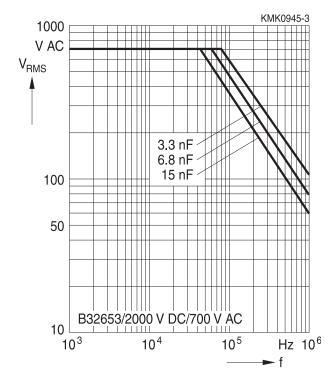
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 22.5 mm

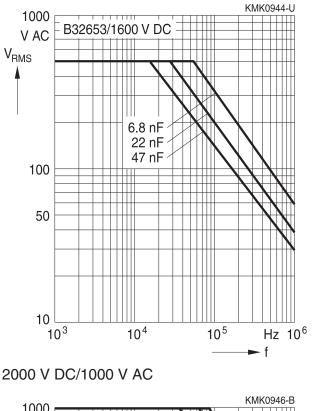


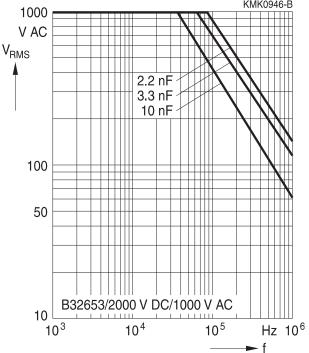


2000 V DC/700 V AC



1600 V DC/500 V AC





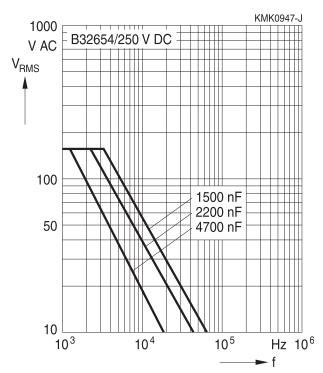




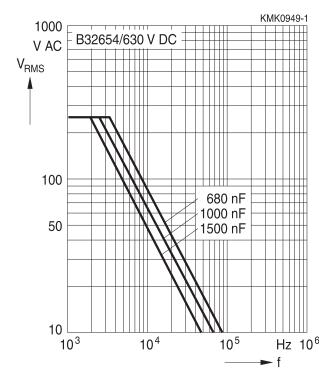
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 27.5 mm

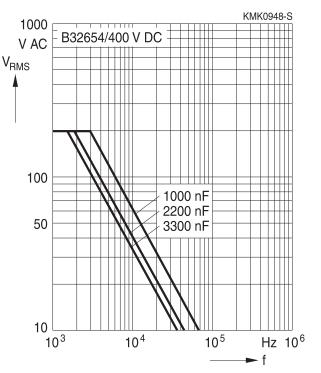
250 V DC/160 V AC

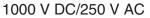


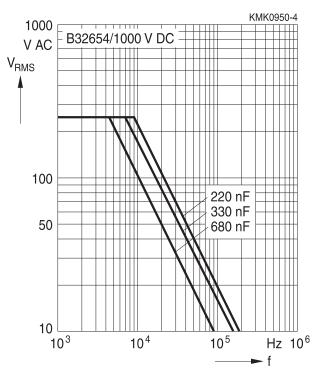
630 V DC/250 V AC



400 V DC/200 V AC







Please read *Cautions and warnings* and *Important notes* at the end of this document. Downloaded from Arrow.com.

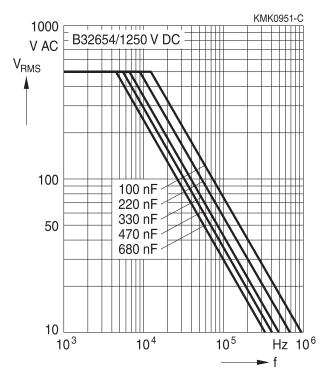




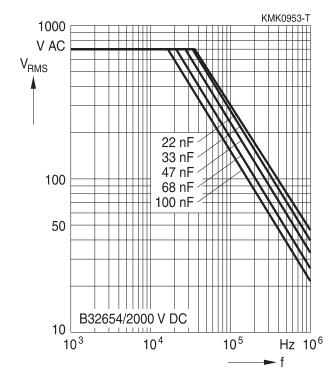
For $T_A > 90 \degree$ C, please refer to "General technical information", section 3.2.3.

Lead spacing 27.5 mm

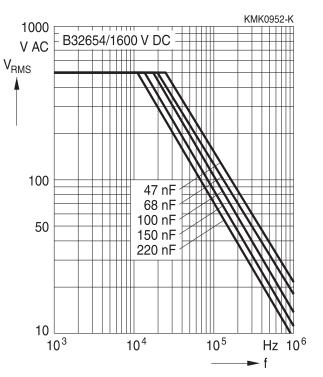
1250 V DC/500 V AC



2000 V DC/700 V AC



1600 V DC/500 V AC

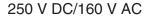


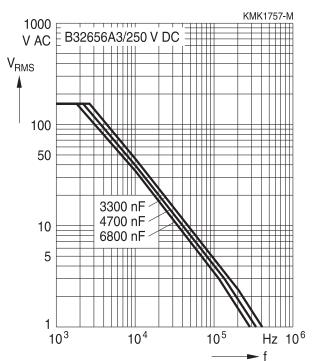




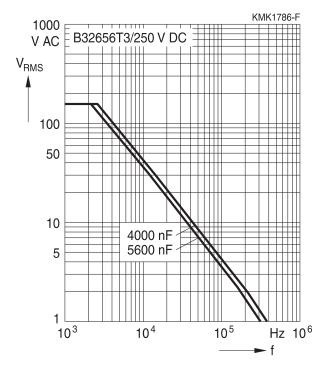
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Lead spacing 37.5 mm

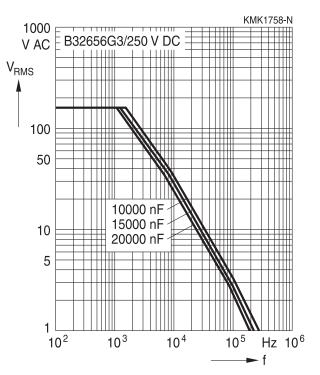




250 V DC/160 V AC



250 V DC/160 V AC

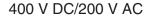


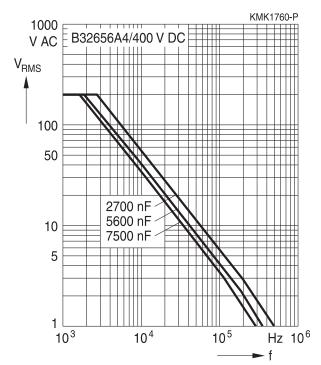




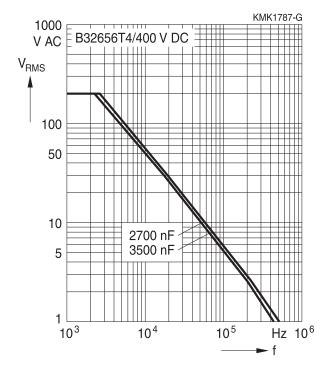
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Lead spacing 37.5 mm

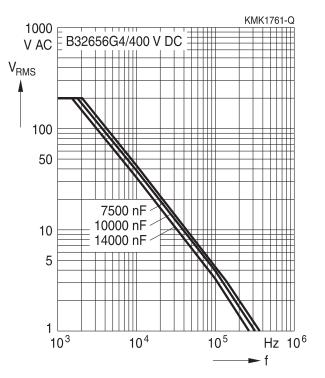




400 V DC/200 V AC



400 V DC/200 V AC

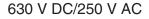


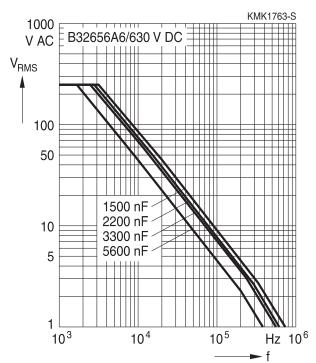


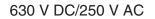


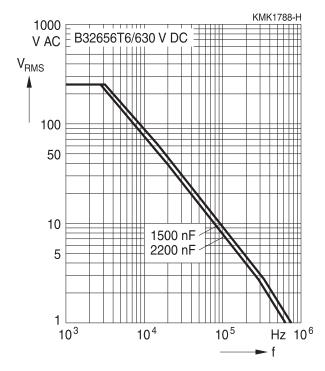
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 37.5 mm

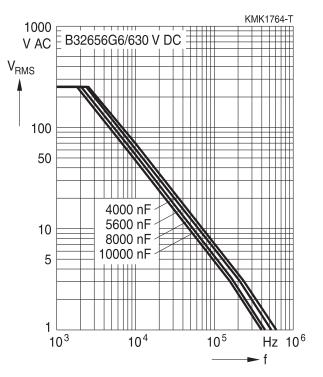








630 V DC/250 V AC

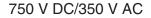


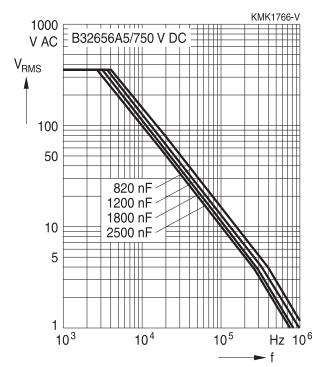




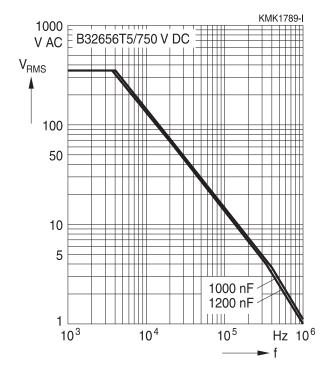
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Lead spacing 37.5 mm

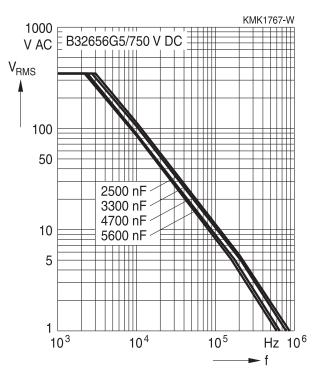




750 V DC/350 V AC



750 V DC/350 V AC

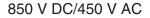


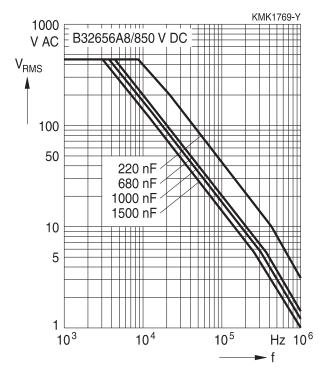




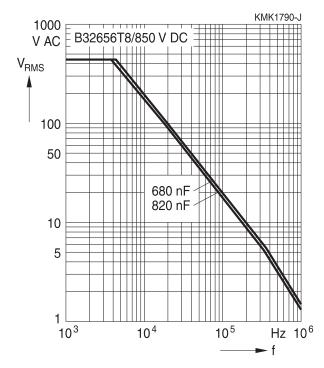
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Lead spacing 37.5 mm

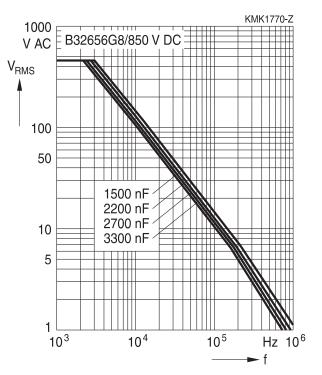




850 V DC/450 V AC



850 V DC/450 V AC



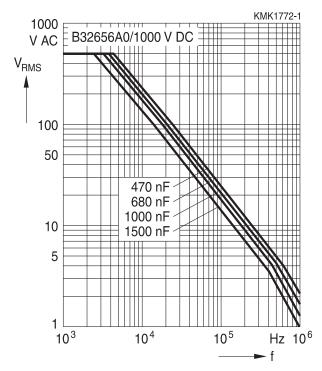




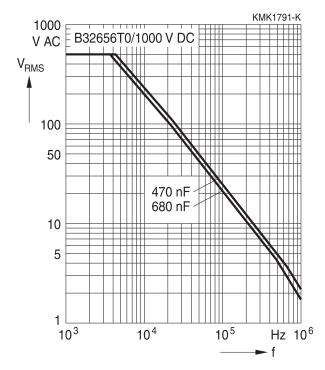
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 37.5 mm

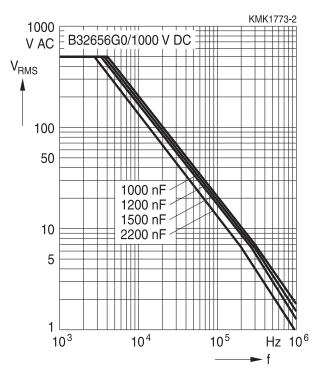




1000 V DC/500 V AC



1000 V DC/500 V AC



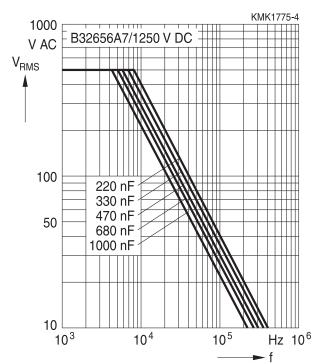




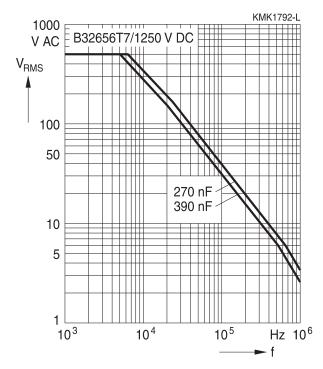
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Lead spacing 37.5 mm

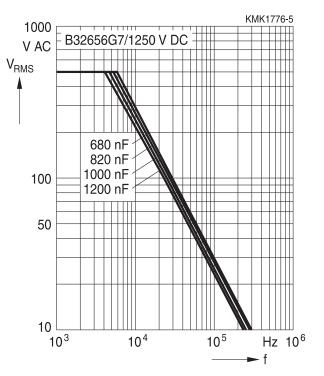
1250 V DC/500 V AC



1250 V DC/500 V AC



1250 V DC/500 V AC



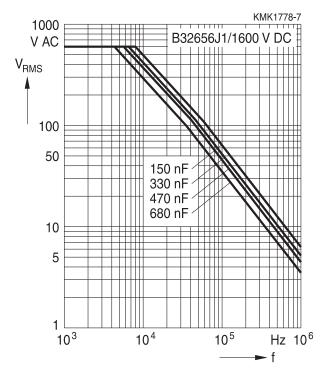




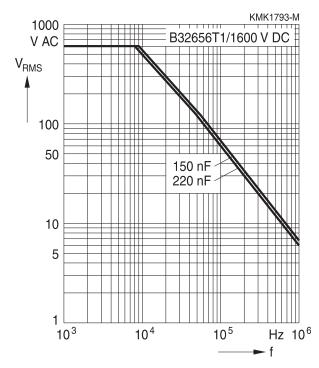
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Lead spacing 37.5 mm

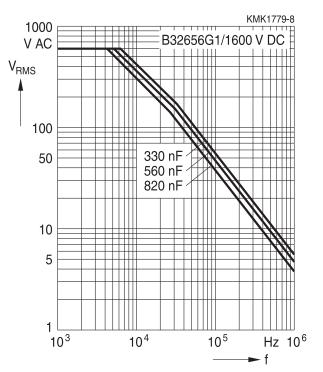




1600 V DC/600 V AC



1600 V DC/600 V AC

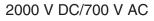


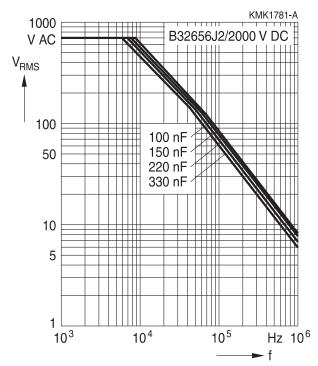




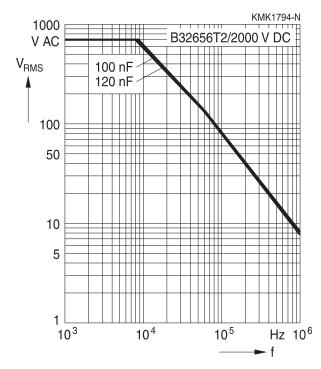
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Lead spacing 37.5 mm

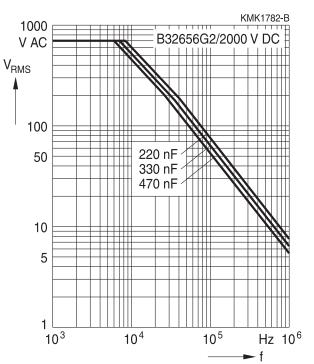




2000 V DC/700 V AC



2000 V DC/700 V AC



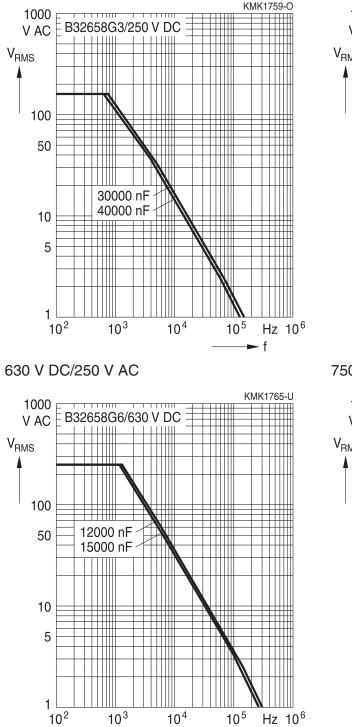




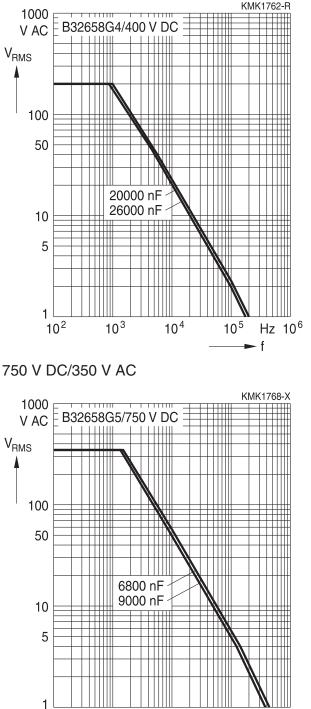
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 52.5 mm





400 V DC/200 V AC



10³

10⁴

10⁵

Hz 10⁶

f

f

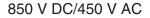
10²

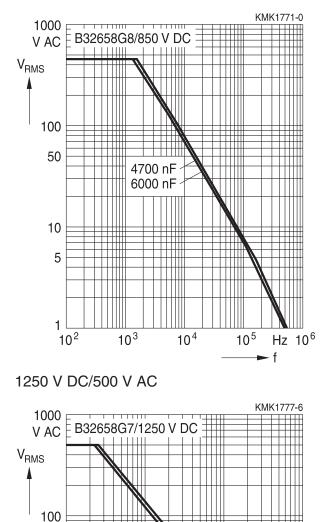




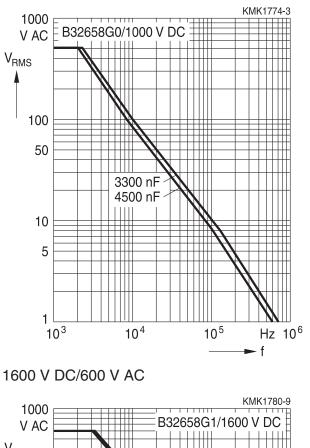
For $T_A > 90 \degree$ C, please refer to "General technical information", section 3.2.3.

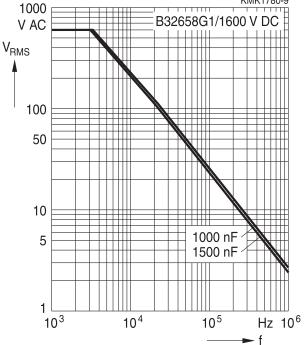
Lead spacing 52.5 mm





1000 V DC/500 V AC





50

10

5

1

10³

2000 nF 2700 nF

10⁴

10⁵

Hz 10⁶

f

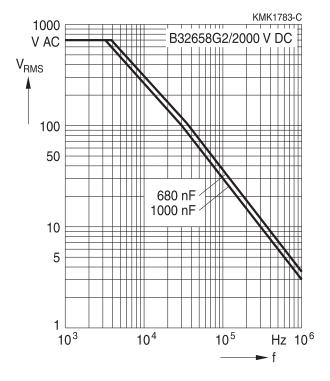




For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

Lead spacing 52.5 mm







B32651 ... B32658 MKP High pulse (wound)

Mounting guidelines

1 Soldering

1.1 Solderability of leads

The solderability of terminal leads is tested to IEC 60068-2-20:2008, test Ta, method 1.

Before a solderability test is carried out, terminals are subjected to accelerated ageing (to IEC 60068-2-2:2007, 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.

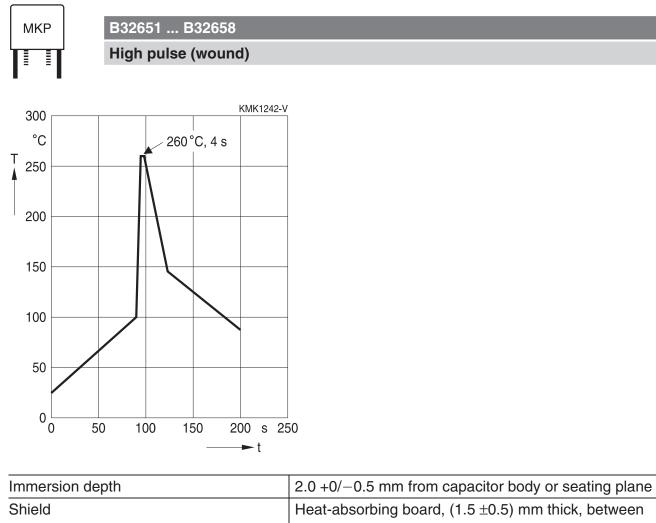
Solder bath temperature	235 ±5 °C
Soldering time	2.0 ±0.5 s
Immersion depth	2.0 +0/ -0.5 mm from capacitor body or seating plane
Evaluation criteria:	
Visual inspection	Wetting of wire surface by new solder ≥90%, free-flowing solder

1.2 Resistance to soldering heat

Resistance to soldering heat is tested to IEC 60068-2-20:2008, test Tb, method 1. Conditions:

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





capacitor body and liquid solder	
No visible damage	
2% for MKT/MKP/MFP	
5% for EMI suppression capacitors	
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

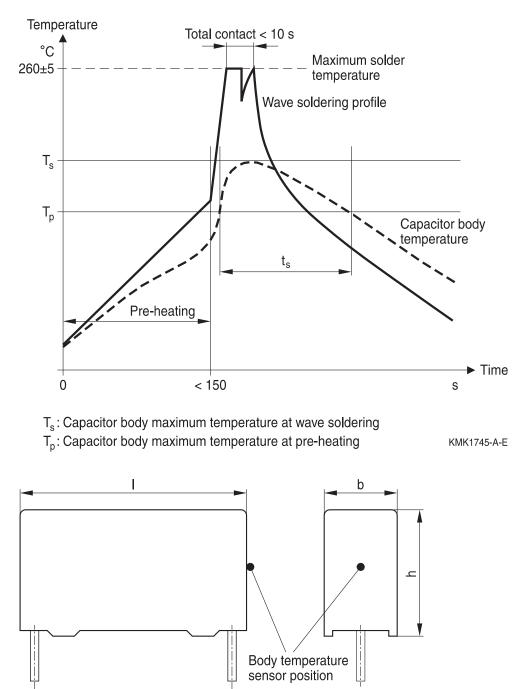




The overheating associated with some of these factors can usually be reduced by suitable countermeasures. For example, if a pre-heating step cannot be avoided, an additional or reinforced cooling process may possibly have to be included.

Recommendations

As a reference, the recommended wave soldering profile for our film capacitors is as follows:



Ρ

KMK1744-9-E





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High pulse (wound)

Body temperature should follow the description below:

- MKP capacitor During pre-heating: T_p ≤110 °C During soldering: T_s ≤120 °C, t_s ≤45 s
- MKT capacitor During pre-heating: T_p ≤125 °C During soldering: T_s ≤160 °C, t_s ≤45 s

When SMD components are used together with leaded ones, the 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.

In order to ensure proper conditions for manual or selective soldering, the body temperature of the capacitor (T_s) must be \leq 120 °C.

One recommended condition for manual soldering is that the tip of the soldering iron should be <360 °C and the soldering contact time should be no longer than 3 seconds.

For uncoated MKT capacitors with lead spacings \leq 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

Please refer to our Film Capacitors Data Book in case more details are needed.



B32651 ... B32658 High pulse (wound)

MKP

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.
- Consult us if application is with severe temperature and humidity condition.
- There are no serviceable or repairable parts inside the capacitor. Opening the capacitor or any attempts to open or repair the capacitor will void the warranty and liability of TDK Electronics.
- Please note that the standards referred to in this publication may have been revised in the meantime.

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".

Торіс	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 60068-2-6:2007. TDK Electronics 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"



MKP

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Торіс	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"

Display of ordering codes for TDK Electronics products

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications, on the company website, or in order-related documents such as shipping notes, order confirmations and product labels. The varying representations of the order-ing codes are due to different processes employed and do not affect the specifications of the respective products.

Detailed information can be found on the Internet under

www.tdk-electronics.tdk.com/orderingcodes.



B32651 ... B32658 High pulse (wound)

MKP

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
С	Capacitance	Kapazität
C _R	Rated capacitance	Nennkapazität
ΔC	Absolute capacitance change	Absolute Kapazitätsänderung
$\Delta C/C$	Relative capacitance change (relative	Relative Kapazitätsänderung (relative
	deviation of actual value)	Abweichung vom Ist-Wert)
$\Delta C/C_R$	Capacitance tolerance (relative deviation	Kapazitätstoleranz (relative Abweichung
	from rated capacitance)	vom Nennwert)
dt	Time differential	Differentielle Zeit
Δt	Time interval	Zeitintervall
ΔT	Absolute temperature change	Absolute Temperaturänderung
	(self-heating)	(Selbsterwärmung)
∆tan δ	Absolute change of dissipation factor	Absolute Änderung des Verlustfaktors
ΔV	Absolute voltage change	Absolute Spannungsänderung
dV/dt	Time differential of voltage function (rate	Differentielle Spannungsänderung
	of voltage rise)	(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	Grenzfrequenz für thermisch bedingte
	AC voltage due to thermal limits	Reduzierung der zulässigen
		Wechselspannung
f ₂	Frequency limit for reducing permissible	Grenzfrequenz für strombedingte
	AC voltage due to current limit	Reduzierung der zulässigen
		Wechselspannung
f _r	Resonant frequency	Resonanzfrequenz
F _D	Thermal acceleration factor for diffusion	Therm. Beschleunigungsfaktor zur Diffusion
F _τ	Derating factor	Deratingfaktor
i	Current (peak)	Stromspitze
I _C	Category current (max. continuous current)	Kategoriestrom (max. Dauerstrom)



MKP

B32651 ... B32658

High pulse (wound)

Symbol	English	German
I _{RMS}	(Sinusoidal) alternating current,	(Sinusförmiger) Wechselstrom
	root-mean-square value	
i _z	Capacitance drift	Inkonstanz der Kapazität
k ₀	Pulse characteristic	Impulskennwert
L _s	Series inductance	Serieninduktivität
λ	Failure rate	Ausfallrate
λο	Constant failure rate during useful	Konstante Ausfallrate in der
	service life	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
Rs	Series resistance	Serienwiderstand
S	severity (humidity test)	Schärfegrad (Feuchtetest)
t	Time	Zeit
Т	Temperature	Temperatur
τ	Time constant	Zeitkonstante
tan δ	Dissipation factor	Verlustfaktor
$\tan \delta_{D}$	Dielectric component of dissipation factor	Dielektrischer Anteil des Verlustfaktors
tan δ_P	Parallel component of dissipation factor	Parallelanteil des Verlfustfaktors
tan δ_s	Series component of dissipation factor	Serienanteil des Verlustfaktors
T _A	Temperature of the air surrounding the component	Temperatur der Luft, die das Bauteil umgibt
T _{max}	Upper category temperature	Obere Kategorietemperatur
T _{min}	Lower category temperature	Untere Kategorietemperatur
t _{oL}	Operating life at operating temperature	Betriebszeit bei Betriebstemperatur und
	and voltage	-spannung
T _{op}	Operating temperature, $T_A + \Delta T$	Beriebstemperatur, $T_A + \Delta T$
T _R	Rated temperature	Nenntemperatur
T _{ref}	Reference temperature	Referenztemperatur
t _{sL}	Reference service life	Referenz-Lebensdauer



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MKP

High pulse (wound)

Symbol	English	German
V _{AC}	AC voltage	Wechselspannung
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)
Vi	Input voltage	Eingangsspannung
Vo	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
ν̂ _R	Amplitude of rated AC voltage	Amplitude der Nenn-Wechselspannung
V_{RMS}	(Sinusoidal) alternating voltage,	(Sinusförmige) Wechselspannung
	root-mean-square value	
V_{SC}	S-correction voltage	Spannung bei Anwendung "S-correction"
V_{sn}	Snubber capacitor voltage	Spannung bei Anwendung
		"Beschaltung"
Z	Impedance	Scheinwiderstand
е	Lead spacing	Rastermaß



The following applies to all products named in this publication:

- 1. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or lifesaving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous). Useful information on this will be found in our Material Data Sheets on the Internet (www.tdk-electronics.tdk.com/material). Should you have any more detailed questions, please contact our sales offices.
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Important notes

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