



Film Capacitors

Metallized Polyester Film Capacitors (MKT)

Series/Type: B32560 ... B32564

Date: June 2018

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Typical applications

- SMPS, converter
- Electronic ballasts
- Compact fluorescent lamps (CFL)
- Ignition

Climatic

- Max. operating temperature: 125 °C
- Climatic category (IEC 60068-1:2013): 55/125/56

Features

- Special dimensions available on request
- High pulse strength
- Small dimensions
- RoHS-compatible

Construction

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

Terminals

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

Marking

Rated capacitance (coded),
rated DC voltage

Delivery mode

Bulk (untaped)

Taped (Ammo pack or reel) for lead spacing ≤ 15.0 mm.

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

Notes on mounting

When mounting these capacitors, take into account creepage distances and clearances to adjacent live parts. The insulating strength of the cut surfaces to other live parts of the circuit is 1.5 times the capacitors rated DC voltage, but is always at least 300 V DC.

Capacitors with 7.5 mm lead spacing are only suitable for use with single-clad printed circuit boards.

Dimensional drawing



Dimensions in mm

Lead spacing	Lead diameter	Type
$e \pm 0.4$	$d_1 \pm 0.05$	
7.5	0.5	B32560
10.0	0.5	B32561
15.0	0.6	B32562J
	0.8	B32562H
22.5	0.8	B32563
27.5	0.8	B32564



Overview of available types

Lead spacing	7.5 mm						10.0 mm					15.0 mm			
Type	B32560						B32561					B32562			
Page	5						7					9			
V _R (V DC)	63	100	250	400	630	1000	63	100	250	400	630	100	250	400	630
V _{RMS} (V AC)	40	63	160	200	400	500	40	63	160	200	350	63	160	200	350
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															
6.8															
10															



B32560 ... B32564

General purpose (stacked) SilverCap™

Overview of available types

Lead spacing	22.5 mm			27.5 mm			
Type	B32563			B32564			
Page	10			11			
V_R (V DC)	100	250	400	100	250	400	420
V_{RMS} (V AC)	63	160	200	63	160	200	200
C_R (μ F)							
1.0							
1.5							
2.2							
3.3							
4.7							
6.8							
10							
15							
22							
33							


Ordering codes and packing units (lead spacing 7.5 mm)

V_R	V_{RMS} $f \leq 60$ 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	1.0	4.0 × 6.8 × 9.0	B32560J0105+***	8800	7200	4000
		1.5	5.1 × 7.6 × 9.0	B32560J0155+***	6800	5600	2000
		2.2	6.5 × 8.2 × 9.0	B32560J0225+***	6000	4800	2000
		3.3	8.5 × 9.1 × 9.0	B32560J0335+000	—	—	1400
		4.7	9.8 × 11.0 × 9.0	B32560J0475+000	—	—	1000
100	63	0.22	2.5 × 5.1 × 9.0	B32560J1224+***	12400	10000	7600
		0.33	2.7 × 5.7 × 9.0	B32560J1334+***	12000	9600	6000
		0.47	3.4 × 6.1 × 9.0	B32560J1474+***	9600	8000	4800
		0.68	4.2 × 6.5 × 9.0	B32560J1684+***	8000	6400	3600
		1.0	5.5 × 7.0 × 9.0	B32560J1105+***	6000	4800	2000
		1.5	6.7 × 8.2 × 9.0	B32560J1155+***	5000	4000	1600
		2.2	8.5 × 9.2 × 9.0	B32560J1225+000	—	—	1200
		3.3	9.5 × 11.0 × 9.0	B32560J1335+000	—	—	800
250	160	0.047	2.5 × 5.2 × 9.0	B32560J3473+***	13000	10400	7600
		0.068	2.6 × 5.7 × 9.0	B32560J3683+***	12400	10000	6800
		0.10	3.2 × 6.1 × 9.0	B32560J3104+***	12400	8000	4800
		0.15	3.9 × 7.0 × 9.0	B32560J3154+***	8200	6800	3600
		0.22	4.9 × 7.5 × 9.0	B32560J3224+***	6800	5200	2600
		0.33	6.4 × 8.2 × 9.0	B32560J3334+***	5200	4400	1800
		0.47	7.4 × 9.8 × 9.0	B32560J3474+000	—	—	1200
		0.68	9.5 × 11.0 × 9.0	B32560J3684+000	—	—	800

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

Special dimensions available on request.

For corresponding design rules, refer to chapter "General technical information", section 1.3.2.

Composition of ordering code

+ = Capacitance tolerance code:

M = ±20%

K = ±10%

J = ±5%

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 5 – 1 mm)



B32560

General purpose (stacked) SilverCap™

Ordering codes and packing units (lead spacing 7.5 mm)

V_R	V_{RMS} $f \leq 60$ 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	0.0068	2.5 × 5.5 × 9.0	B32560J6682+***	14000	11200	7600
		0.010	2.5 × 5.5 × 9.0	B32560J6103+***	12800	10400	7200
		0.015	2.5 × 5.5 × 9.0	B32560J6153+***	13000	10400	7200
		0.022	2.5 × 5.5 × 9.0	B32560J6223+***	12400	10000	6800
		0.033	2.6 × 6.0 × 9.0	B32560J6333+***	12400	10000	6400
		0.047	3.2 × 6.5 × 9.0	B32560J6473+***	10400	8400	4800
		0.068	3.8 × 7.3 × 9.0	B32560J6683+***	8600	7200	3600
		0.10	4.9 × 7.7 × 9.0	B32560J6104+***	6800	5600	2000
		0.15	6.5 × 8.2 × 9.0	B32560J6154+***	5400	4000	1800
		0.22	7.7 × 9.8 × 9.0	B32560J6224+000	—	—	1200
630	400	0.0010	2.5 × 5.5 × 9.0	B32560J8102+***	14800	12000	9200
		0.0015	2.5 × 5.5 × 9.0	B32560J8152+***	13000	2600	7200
		0.0022	2.5 × 5.5 × 9.0	B32560J8222+***	13400	10800	7200
		0.0033	2.5 × 5.5 × 9.0	B32560J8332+***	14000	11200	7600
		0.0047	2.5 × 5.5 × 9.0	B32560J8472+***	13600	10800	7200
		0.0068	3.2 × 6.5 × 9.0	B32560J8682+***	15000	9200	5200
		0.010	3.8 × 7.5 × 9.0	B32560J8103+***	9000	9200	4000
		0.015	4.6 × 8.3 × 9.0	B32560J8153+000	—	—	2400
		0.022	5.7 × 8.6 × 9.0	B32560J8223+000	—	—	1600
1000	500	0.0022	2.5 × 6.0 × 9.0	B32560J9222+***	13000	10400	6800
		0.0033	3.3 × 6.5 × 9.0	B32560J9332+***	10000	8000	4800
		0.0047	3.6 × 7.4 × 9.0	B32560J9472+***	9000	7600	3600

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

Special dimensions available on request.

For corresponding design rules, refer to chapter "General technical information", section 1.3.2.

Composition of ordering code

+ = Capacitance tolerance code:

- M = ±20%
- K = ±10%
- J = ±5%

*** = Packaging code:

- 289 = Ammo pack
- 189 = Reel
- 000 = Untaped (lead length 5 – 1 mm)


Ordering codes and packing units (lead spacing 10 mm)

V_R	V_{RMS} $f \leq 60$ 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	1.0	3.5 × 6.2 × 11.0	B32561J0105+***	4960	7600	4000
		1.5	4.3 × 6.9 × 11.0	B32561J0155+***	4200	6000	2800
		2.2	5.1 × 7.9 × 11.0	B32561J0225+***	3400	5000	2000
		3.3	6.4 × 9.1 × 11.0	B32561J0335+000	—	—	1200
		4.7	7.3 × 11.0 × 11.0	B32561J0475+000	—	—	800
		6.8	8.8 × 12.7 × 11.0	B32561J0685+000	—	—	600
100	63	0.68	3.6 × 6.3 × 11.5	B32561J1684+***	5040	8000	4000
		1.0	4.5 × 6.9 × 11.5	B32561J1105+***	4200	6000	2000
		1.5	5.6 × 7.8 × 11.5	B32561J1155+***	3240	4800	2000
		2.2	6.9 × 9.0 × 11.5	B32561J1225+000	—	—	1400
		3.3	7.8 × 10.5 × 11.5	B32561J1335+000	—	—	800
250	160	0.10	2.8 × 5.3 × 11.5	B32561J3104+***	6160	9200	5200
		0.15	3.3 × 6.0 × 11.5	B32561J3154+***	5040	8000	4000
		0.22	4.2 × 6.6 × 11.5	B32561J3224+***	4160	6000	2800
		0.33	5.2 × 7.5 × 11.5	B32561J3334+***	3360	5200	2000
		0.47	6.3 × 8.5 × 11.5	B32561J3474+***	2720	4400	1400
		0.68	7.5 × 9.7 × 11.5	B32561J3684+000	—	—	800
		1.0	9.5 × 11.0 × 11.5	B32561J3105+000	—	—	600
400	200	0.033	2.5 × 5.1 × 11.5	B32561J6333+***	6480	9200	6000
		0.047	2.6 × 6.0 × 11.5	B32561J6473+***	6240	9200	5200
		0.068	3.2 × 6.6 × 11.5	B32561J6683+***	5560	8400	4000
		0.10	4.0 × 6.9 × 11.5	B32561J6104+***	4360	6800	2800
		0.15	5.2 × 7.7 × 11.5	B32561J6154+***	3400	5200	2000
		0.22	6.6 × 8.5 × 11.5	B32561J6224+***	2720	4000	1400
		0.33	8.0 × 9.5 × 11.5	B32561J6334+000	—	—	800
		0.47	9.8 × 11.0 × 11.5	B32561J6474+000	—	—	600

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

Special dimensions available on request.

For corresponding design rules, refer to chapter "General technical information", section 1.3.2.

Composition of ordering code

+ = Capacitance tolerance code:

M = ±20%

K = ±10%

J = ±5%

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 5 – 1 mm)



B32561

General purpose (stacked) SilverCap™

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	350	0.015	2.8 × 6.3 × 11.0	B32561J8153+***	6320	9200	4800
		0.022	3.4 × 6.9 × 11.0	B32561J8223+***	5200	8000	3600
		0.033	4.2 × 7.6 × 11.0	B32561J8333+***	4080	6400	2400
		0.047	5.3 × 8.0 × 11.0	B32561J8473+***	3360	5000	1800
		0.068	6.3 × 9.0 × 11.0	B32561J8683+000	—	—	1400
		0.10	7.3 × 11.4 × 11.0	B32561J8104+000	—	—	800
		0.15	8.8 × 13.3 × 11.0	B32561J8154+000	—	—	600

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

Special dimensions available on request.

For corresponding design rules, refer to chapter "General technical information", section 1.3.2.

Composition of ordering code

+ = Capacitance tolerance code:

M = ±20%

K = ±10%

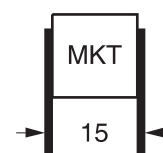
J = ±5%

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 5 – 1 mm)


Ordering codes and packing units (lead spacing 15 mm)

V_R	V_{RMS} $f \leq 60$ Hz	C_R	Max. dimensions $w \times h \times l$	Ordering code (composition see below)	Ammo pack	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF	mm		pcs./MOQ		
100	63	2.2	4.9 × 8.0 × 16.5	B32562J1225+***	4760	5200	3200
		3.3	6.0 × 9.3 × 16.5	B32562J1335+***	3840	4000	2000
		4.7	7.3 × 10.6 × 16.5	B32562H1475+***	3160	3600	1600
		6.8	9.0 × 11.8 × 16.5	B32562H1685+***	2560	2800	1160
		10	11.8 × 13.0 × 16.5	B32562H1106+000	–	–	800
250	160	0.47	5.0 × 6.7 × 16.5	B32562J3474+***	4760	5200	3800
		0.68	6.0 × 7.8 × 16.5	B32562J3684+***	3840	4000	2000
		1.0	7.0 × 9.3 × 16.5	B32562J3105+***	3320	3600	2000
		1.5	8.7 × 11.0 × 16.5	B32562H3155+***	2640	2800	1200
		2.2	10.7 × 12.8 × 16.5	B32562H3225+000	–	–	800
		3.3	13.9 × 14.5 × 16.5	B32562H3335+000	–	–	600
400	200	0.22	4.7 × 7.5 × 16.5	B32562J6224+***	4960	5200	3400
		0.33	6.0 × 8.3 × 16.5	B32562J6334+***	3840	4000	2000
		0.47	7.3 × 9.3 × 16.5	B32562J6474+***	3160	3600	1800
		0.68	8.9 × 10.8 × 16.5	B32562H6684+***	2560	2800	1200
		1.0	10.9 × 12.5 × 16.5	B32562H6105+000	–	–	800
		1.5	13.7 × 15.2 × 16.5	B32562H6155+000	–	–	400
630	350	0.22	9.2 × 12.2 × 16.5	B32562H8224+000	–	–	1400
		0.33	11.2 × 14.2 × 16.5	B32562H8334+000	–	–	1000
		0.47	13.5 × 16.3 × 16.5	B32562H8474+000	–	–	720

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

Special dimensions available on request.

For corresponding design rules, refer to chapter "General technical information", section 1.3.2.

Composition of ordering code

+ = Capacitance tolerance code:

M = ±20%

K = ±10%

J = ±5%

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (lead length 5 – 1 mm)



B32563

General purpose (stacked) SilverCap™

Ordering codes and packing units (lead spacing 22.5 mm)

V_R	V_{RMS} $f \leq 60$ Hz	C_R	Max. dimensions $w \times h \times l$	Ordering code (composition see below)	Untaped pcs./MOQ
V DC	V AC	μF	mm		
100	63	6.8	7.0 × 10.5 × 24.0	B32563J1685+000	3680
		10	8.6 × 12.2 × 24.0	B32563J1106+000	3840
		15	10.9 × 14.0 × 24.0	B32563J1156+000	2480
		22	12.8 × 17.2 × 24.0	B32563J1226+000	1440
250	160	2.2	8.3 × 11.2 × 24.0	B32563J3225+000	2960
		3.3	10.1 × 13.5 × 24.0	B32563J3335+000	2800
		4.7	12.2 × 15.5 × 24.0	B32563J3475+000	1560
400	200	1.0	8.3 × 11.2 × 24.0	B32563J6105+000	3400
		1.5	10.3 × 13.2 × 24.0	B32563J6155+000	2640
		2.2	12.6 × 15.5 × 24.0	B32563J6225+000	1440

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

Special dimensions available on request.

For corresponding design rules, refer to chapter "General technical information", section 1.3.2.

Composition of ordering code

+ = Capacitance tolerance code:

M = ±20%

K = ±10%

J = ±5%

Packaging code:

000 = Untaped (lead length 5 – 1 mm)


Ordering codes and packing units (lead spacing 27.5 mm)

V_R	V_{RMS} $f \leq 60$ Hz	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Untaped pcs./MOQ
V DC	V AC	μF			
100	63	10	$7.6 \times 11.0 \times 29.0$	B32564J1106+000	2720
		15	$9.1 \times 13.5 \times 29.0$	B32564J1156+000	1720
		22	$11.0 \times 16.0 \times 29.0$	B32564J1226+000	1280
		33	$13.0 \times 19.8 \times 29.0$	B32564J1336+000	1440
250	160	3.3	$7.9 \times 14.0 \times 29.0$	B32564J3335+000	3000
		4.7	$9.6 \times 15.8 \times 29.0$	B32564J3475+000	1600
		6.8	$11.9 \times 18.0 \times 29.0$	B32564J3685+000	1200
		10	$13.8 \times 22.5 \times 29.0$	B32564J3106+000	1120
400	200	1.5	$7.8 \times 14.2 \times 29.0$	B32564J6155+000	3000
		2.2	$9.6 \times 16.4 \times 29.0$	B32564J6225+000	1600
		3.3	$12.2 \times 18.8 \times 29.0$	B32564J6335+000	1320
		4.7	$14.2 \times 22.8 \times 29.0$	B32564J6475+000	1040
420	200	4.7	$16.0 \times 20.0 \times 29.0$	B32564T6475K000	1160
		6.8	$16.0 \times 20.0 \times 29.0$	B32564T6685K000	1160

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

Special dimensions available on request.

For corresponding design rules, refer to chapter "General technical information", section 1.3.2.
The technical data given on page 12 do not apply to 420 V series. Please contact your nearest EPCOS representative if you need further information.

Composition of ordering code

+ = Capacitance tolerance code:

M = $\pm 20\%$

K = $\pm 10\%$

J = $\pm 5\%$

Packaging code:

000 = Untaped (lead length 5 – 1 mm)



B32560 ... B32564

General purpose (stacked) SilverCap™

Technical data

Reference standard: IEC 60384-2:2005. All data given at $T = 20\text{ °C}$, unless otherwise specified.

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	$C_R \leq 0.1\ \mu\text{F}$	$0.1\ \mu\text{F} < C_R \leq 1\ \mu\text{F}$	$C_R > 1\ \mu\text{F}$
	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	$C_R \leq 0.33\ \mu\text{F}$		$C_R > 0.33\ \mu\text{F}$
	$\leq 100\ \text{V DC}$	3750 M Ω		1250 s
	$\geq 250\ \text{V DC}$	7500 M Ω		2500 s
DC test voltage	$1.4 \cdot V_R, 2\ \text{s}$			
Category voltage V_C (continuous operation with V_{DC} or V_{AC} at $f \leq 60\ \text{Hz}$)	T_{op} (°C)	DC voltage derating	AC voltage derating	
	$T_{op} \leq 85$	$V_C = V_R$	$V_{C,RMS} = V_{RMS}$	
	$85 < T_{op} \leq 125$	$V_C = V_R \cdot (165 - T_{op})/80$	$V_{C,RMS} = V_{RMS} \cdot (165 - T_{op})/80$	
Operating voltage V_{op} for short operating periods (V_{DC} or V_{AC} at $f \leq 60\ \text{Hz}$)	T_{op} (°C)	DC voltage (max. hours)	AC voltage (max. hours)	
	$T_{op} \leq 100$	$V_{op} = 1.25 \cdot V_C$ (2000 h)	$V_{op} = 1.0 \cdot V_{C,RMS}$ (2000 h)	
	$100 < T_{op} \leq 125$	$V_{op} = 1.25 \cdot V_C$ (1000 h)	$V_{op} = 1.0 \cdot V_{C,RMS}$ (1000 h)	
Reliability:				
Failure rate λ	2 fit ($\leq 1 \cdot 10^{-9}/\text{h}$) at $0.5 \cdot V_R, 40\text{ °C}$			
Service life t_{SL}	100 000 h at $1.0 \cdot V_R, 85\text{ °C}$			
	For conversion to other operating conditions and temperatures, refer to chapter "Reliability".			
Failure criteria:				
Total failure	Short circuit or open circuit			
Failure due to variation of parameters	Capacitance change $ \Delta C/C $	$> 10\%$		
	Dissipation factor $\tan \delta$	$> 2 \cdot$ upper limit value		
	Insulation resistance R_{ins}	$< 150\ \text{M}\Omega$ ($C_R \leq 0.33\ \mu\text{F}$)		
	or time constant $\tau = C_R \cdot R_{ins}$	$< 50\ \text{s}$ ($C_R > 0.33\ \mu\text{F}$)		

Pulse handling capability

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

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

Note:

The values of dV/dt and k₀ provided below must not be exceeded in order to avoid damaging the capacitor. These parameters are given for isolated pulses in such a way that the heat generated by one pulse will be completely dissipated before applying the next pulse. For a train of pulses, please refer to the curves of permissible AC voltage-current versus frequency.

dV/dt values

Lead spacing		7.5 mm	10 mm	15 mm	22.5 mm	27.5 mm
V _R V DC	V _{RMS} V AC	dV/dt in V/μs				
63	40	120	60	–	–	–
100	63	150	75	50	50	25
250	160	200	150	100	100	50
400	200	275	175	125	125	60
420	200	–	–	–	–	60
630	350	–	320	150	–	–
630	400	320	–	–	–	–
1000	500	360	–	–	–	–

k₀ values

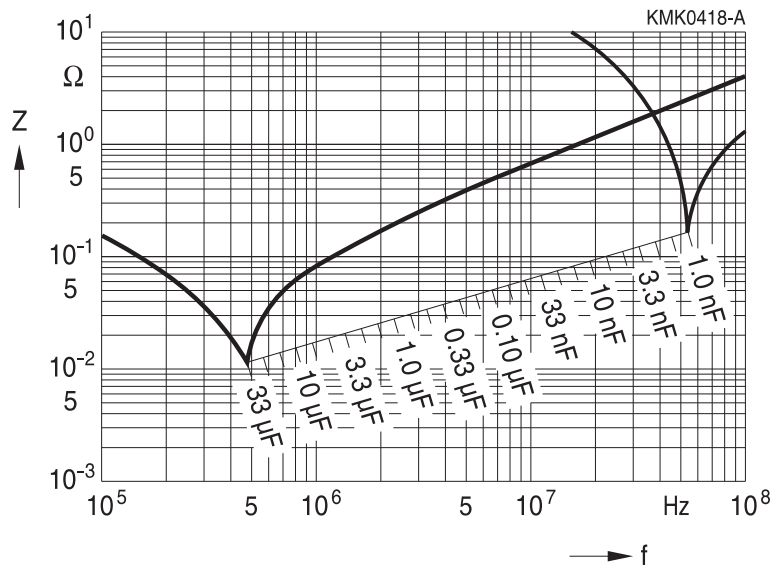
Lead spacing		7.5 mm	10 mm	15 mm	22.5 mm	27.5 mm
V _R V DC	V _{RMS} V AC	k ₀ in V ² /μs				
63	40	15 000	7500	–	–	–
100	63	30 000	15 000	10 000	10 000	5 000
250	160	100 000	75 000	50 000	50 000	25 000
400	200	220 000	140 000	100 000	100 000	50 000
420	200	–	–	–	–	50 000
630	350	–	400 000	190 000	–	–
630	400	400 000	–	–	–	–
1000	500	720 000	–	–	–	–



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Impedance Z versus frequency f
(typical values)



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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 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





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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 7.5 mm

630 V DC/400 V AC



1000 V DC/500 V AC



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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 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





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General purpose (stacked) SilverCap™

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 10 mm

630 V DC/350 V AC



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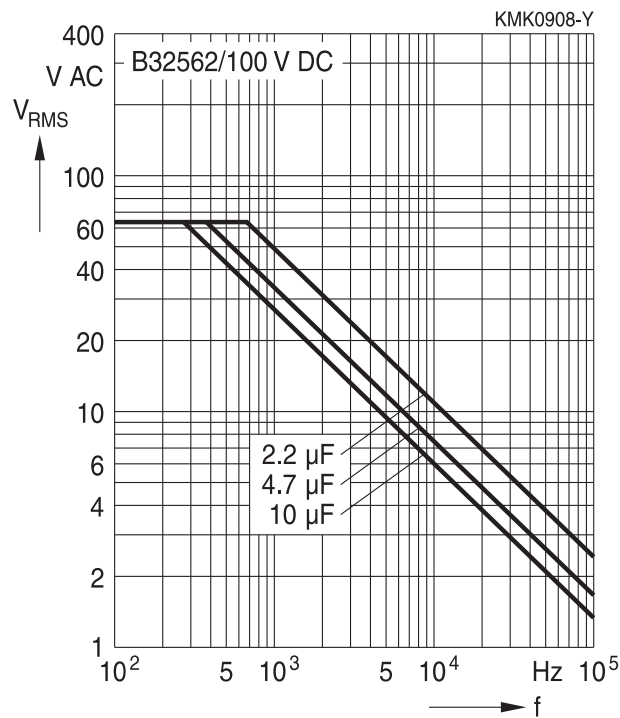


Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 55^\circ C$)

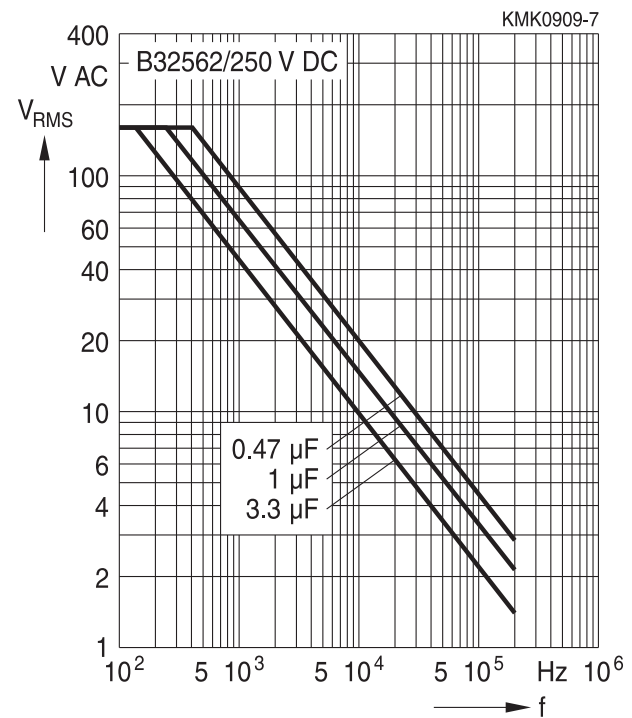
For $T_A > 55^\circ C$, please refer to "General technical information", section 3.2.3.

Lead spacing 15 mm

100 V DC/63 V AC



250 V DC/160 V AC



400 V DC/200 V AC



630 V DC/350 V AC





B32563

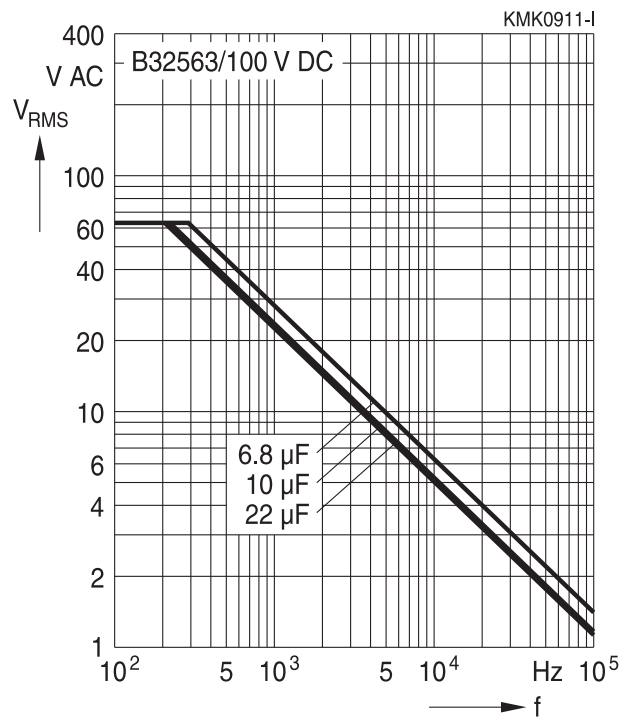
General purpose (stacked) SilverCap™

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

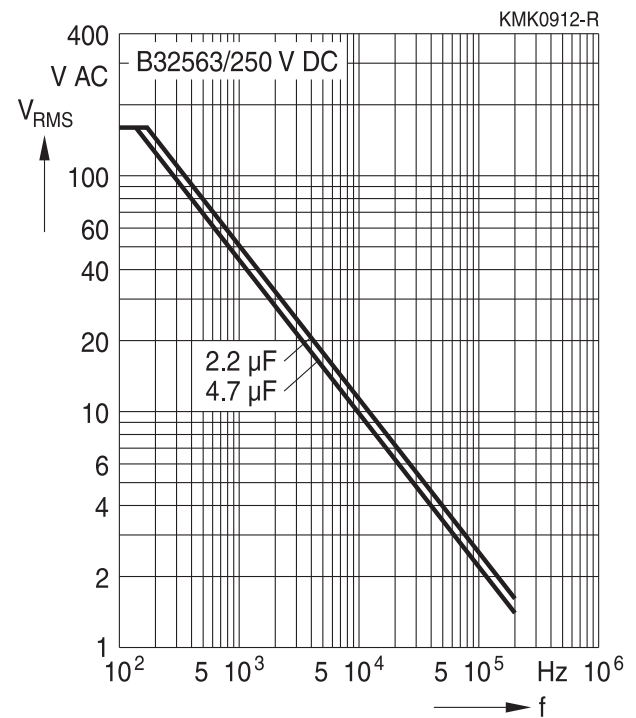
For $T_A > 55^\circ C$, please refer to "General technical information", section 3.2.3.

Lead spacing 22.5 mm

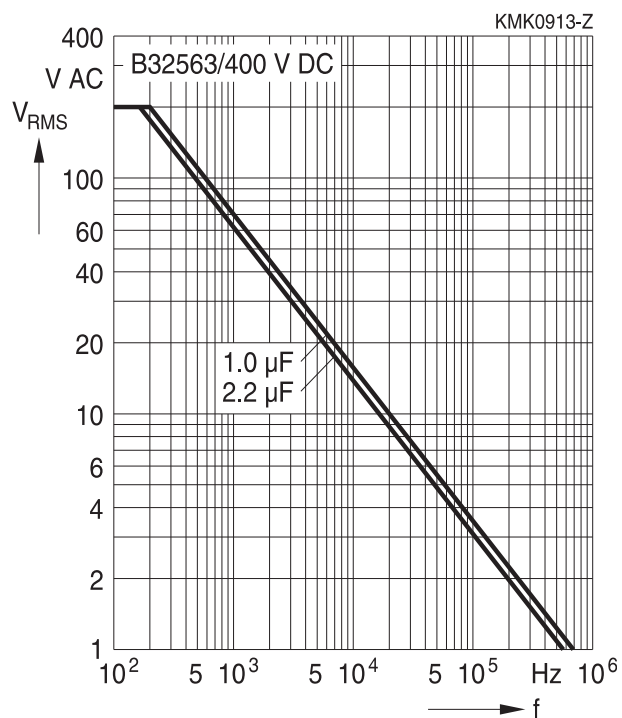
100 V DC/63 V AC



250 V DC/160 V AC



400 V DC/200 V AC



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General purpose (stacked) SilverCap™



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 27.5 mm

100 V DC/63 V AC



250 V DC/160 V AC



400 V DC/200 V AC



420 V DC/200 V AC





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General purpose (stacked) SilverCap™

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

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



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General purpose (stacked) SilverCap™



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

Lead spacing 7.5 mm

630 V DC/400 V AC



1000 V DC/500 V AC





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General purpose (stacked) SilverCap™

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

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



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General purpose (stacked) SilverCap™



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

Lead spacing 10 mm

630 V DC/350 V AC





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General purpose (stacked) SilverCap™

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

Lead spacing 15 mm

100 V DC/63 V AC



250 V DC/160 V AC



400 V DC/200 V AC



630 V DC/350 V AC



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General purpose (stacked) SilverCap™



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

Lead spacing 22.5 mm

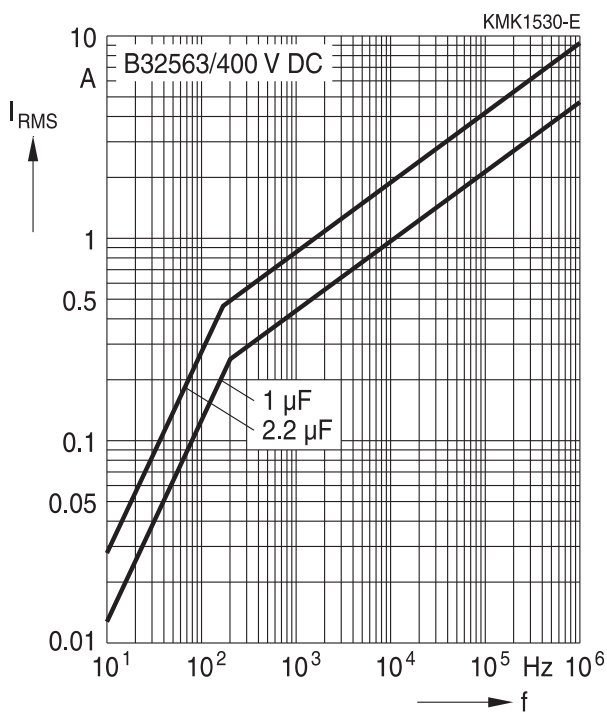
100 V DC/63 V AC



250 V DC/160 V AC



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General purpose (stacked) SilverCap™

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

Lead spacing 27.5 mm

100 V DC/63 V AC



250 V DC/160 V AC



400 V DC/200 V AC



420 V DC/200 V AC



Testing and Standards

Test	Reference	Conditions of test	Performance requirements
Electrical parameters	IEC 60384-2:2005	Voltage proof, 1.4 V _R , 1 minute Insulation resistance, R _{ins} Capacitance, C Dissipation factor, tan δ	Within specified limits
Robustness of terminations	IEC 60068-2-21:2006	Tensile strength (test Ua1)	No visible damage
		Wire diameter Tensile force	Capacitance and tan δ within specified limits
		0.3 < d ₁ ≤ 0.5 mm 5 N	
		0.5 < d ₁ ≤ 0.8 mm 10 N	
Resistance to soldering heat	IEC 60068-2-20:2008, test Tb, method 1A	Solder bath temperature at 260 ± 5 °C, immersion for 4 seconds (lead spacing ≤ 10mm) 10 seconds (lead spacing > 10mm)	ΔC/C ₀ ≤ 2% Δ tan δ ≤ 0.003 for C ≤ 1 μF Δ tan δ ≤ 0.002 for C > 1 μF
Rapid change of temperature	IEC 60384-2:2005	T _A = lower category temperature T _B = upper category temperature Five cycles, duration t = 30 min.	ΔC/C ₀ ≤ 5% Δ tan δ ≤ 0.003 for C ≤ 1 μF Δ tan δ ≤ 0.002 for C > 1 μF R _{ins} ≥ 50% of initial limit
Vibration	IEC 60384-2:2005	Test Fc: vibration sinusoidal Displacement: 0.75 mm Acceleration: 98 m/s ² Frequency: 10 Hz ... 500 Hz Test duration: 3 orthogonal axes, 2 hours each axe	No visible damage
Bump	IEC 60384-2:2005	Test Eb: Total 4000 bumps with 390 m/s ² mounted on PCB Duration: 6 ms	ΔC/C ₀ ≤ 5% Δ tan δ ≤ 0.003 for C ≤ 1 μF Δ tan δ ≤ 0.002 for C > 1 μF R _{ins} ≥ 50% of initial limit
Climatic sequence	IEC 60384-2:2005	Dry heat Tb / 16 h Damp heat cyclic, 1 st cycle +55 °C / 24 h / 95% ... 100% RH Cold Ta / 2 h Damp heat cyclic, 5 cycles +55 °C / 24 h / 95% ... 100% RH	ΔC/C ₀ ≤ 5% Δ tan δ ≤ 0.005 for C ≤ 1 μF Δ tan δ ≤ 0.003 for C > 1 μF R _{ins} ≥ 50% of initial limit
Damp heat, steady state	IEC 60384-2:2005	Test Ca 40 °C / 93% RH / 56 days	No visible damage ΔC/C ₀ ≤ 5% Δ tan δ ≤ 0.005 R _{ins} ≥ 50% of initial limit



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Test	Reference	Conditions of test	Performance requirements
Endurance A	IEC 60384-2:2005	85 °C / 1.25 V _R / 2000 hours	No visible damage ΔC/C ₀ ≤ 5% Δ tan δ ≤ 0.003 for C ≤ 1 μF Δ tan δ ≤ 0.002 for C > 1 μF R _{ins} ≥ 50% of initial limit
Endurance B	IEC 60384-2:2005	125 °C / 1.25 V _C / 2000 hours	No visible damage ΔC/C ₀ ≤ 5% Δ tan δ ≤ 0.003 for C ≤ 1 μF Δ tan δ ≤ 0.002 for C > 1 μF R _{ins} ≥ 50% of initial limit

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 1.

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) MKP (lead spacing ≤7.5 mm)	260 ±5 °C	5 ±1 s
MKT uncoated (lead spacing ≤10 mm) insulated (B32559)		<4 s
		recommended soldering profile for MKT uncoated (lead spacing ≤ 10 mm) and insulated (B32559)



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



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General purpose (stacked) SilverCap™

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 recommendations

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



T_s : Capacitor body maximum temperature at wave soldering

T_p : Capacitor body maximum temperature at pre-heating

KMK1745-A-E



Body temperature should follow the description below:

- MKP capacitor
 - During pre-heating: $T_p \leq 110 \text{ }^\circ\text{C}$
 - During soldering: $T_s \leq 120 \text{ }^\circ\text{C}$, $t_s \leq 45 \text{ s}$
- MKT capacitor
 - During pre-heating: $T_p \leq 125 \text{ }^\circ\text{C}$
 - During soldering: $T_s \leq 160 \text{ }^\circ\text{C}$, $t_s \leq 45 \text{ s}$

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 $\leq 120 \text{ }^\circ\text{C}$.

One recommended condition for manual soldering is that the tip of the soldering iron should be $< 360 \text{ }^\circ\text{C}$ and the soldering contact time should be no longer than 3 seconds.

For uncoated MKT capacitors with lead spacings $\leq 10 \text{ mm}$ (B32560/B32561) the following measures are recommended:

- pre-heating to not more than $110 \text{ }^\circ\text{C}$ in the preheater phase
- rapid cooling after soldering

Please refer to EPCOS Film Capacitor Data Book in case more details are needed.



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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 EPCOS.
- 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".

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 60068-2-6:2007. 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"



Topic	Safety information	Reference chapter "Mounting guidelines"
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 EPCOS products

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications and the website of EPCOS, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering 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.epcos.com/orderingcodes.



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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	Impuls Kennwert
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	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 and voltage	Betriebszeit bei Betriebstemperatur und -spannung
T_{op}	Operating temperature, $T_A + \Delta T$	Betriebstemperatur, $T_A + \Delta T$
T_R	Rated temperature	Nenntemperatur
T_{ref}	Reference temperature	Referenztemperatur
t_{SL}	Reference service life	Referenz-Lebensdauer



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Symbol	English	German
V_{AC}	AC voltage	Wechselspannung
V_C	Category voltage	Kategorie spannung
$V_{C,RMS}$	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	Ausgangsspannung
V_{op}	Operating voltage	Betriebsspannung
V_p	Peak pulse voltage	Impuls-Spitzen spannung
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

Important notes

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, EPCOS is 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 an EPCOS 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.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
6. Unless otherwise agreed in individual contracts, **all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI)**.

Important notes

7. **Our manufacturing sites serving the automotive business apply the IATF 16949 standard.** The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements (“CSR”) TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that **only requirements mutually agreed upon can and will be implemented in our Quality Management System.** For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.
8. The trade names EPCOS, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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