

Film Capacitors

Metallized Polypropylene Film Capacitors (MKP)

 Series/Type:
 B32656S, B32658S

 Date:
 June 2018

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Metallized polypropylene film capacitors (MKP)

Snubber (wound)

Typical applications

- IGBT
- Snubbering

Climatic

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

Construction

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

Features

- High pulse strength and high contact reliability
- Very low inductance
- RoHS-compatible
- AEC-Q200D compliant

Terminals

Strap terminals, tinned copper or brass (max. torque 10 Nm)

Marking

Manufacturer's logo, ordering code, style (MKP) rated capacitance (coded), cap. tolerance (code letter), rated DC voltage, date of manufacture (coded)

Delivery mode

Bulk (untaped)

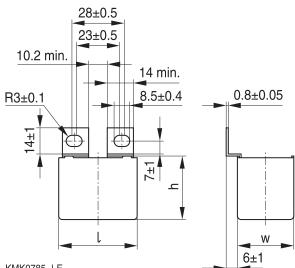
B32656S, B32658S

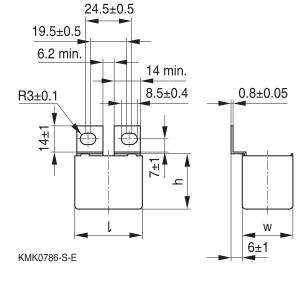


B32656S, B32658S Snubber (wound)

Dimensional drawings

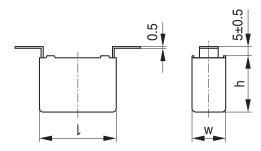
T1 (code no. 561)

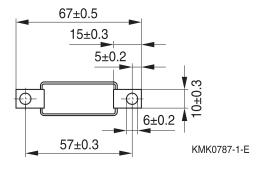




KMK0785-J-E

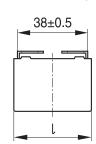
T3 (code no. 563)

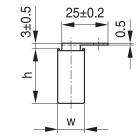


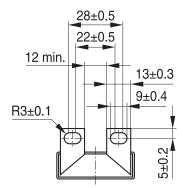


T4 (code no. 564)

T2 (code no. 562)







KMK0788-9-E

Important notes at the end of this document.

Please read Cautions and warnings and

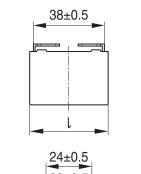


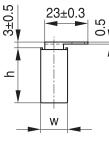
B32656S, B32658S

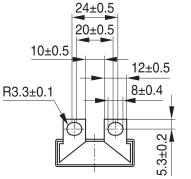
Snubber (wound)

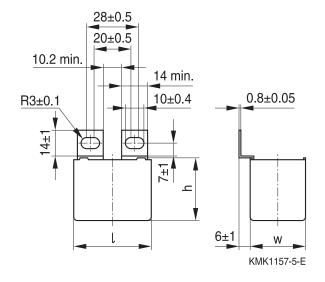
Dimensional drawings

T5 (code no. 565)



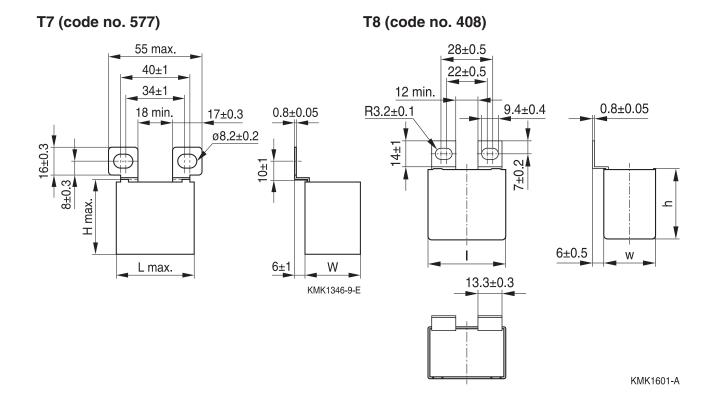






T6 (code no. 566)

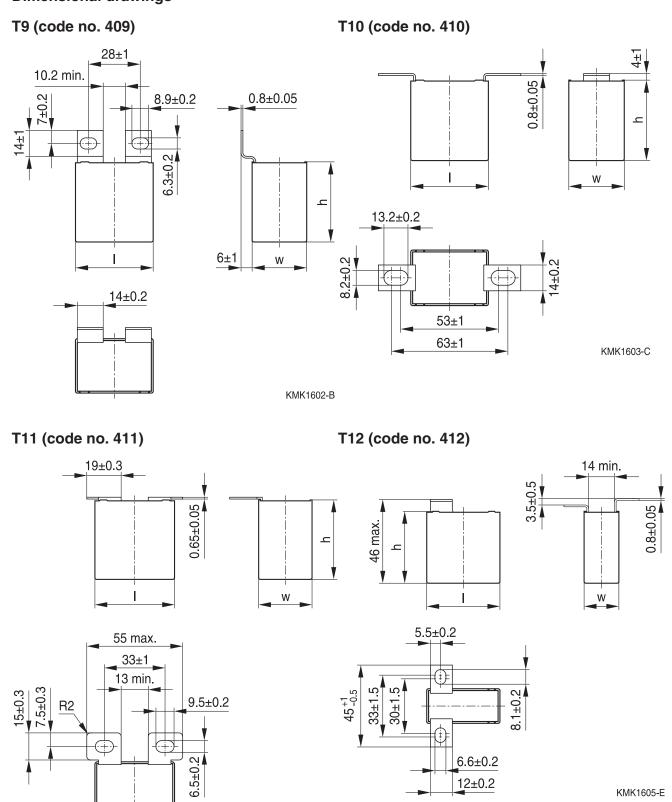
KMK0789-H-E





B32656S, B32658S Snubber (wound)

Dimensional drawings



KMK1604-D

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



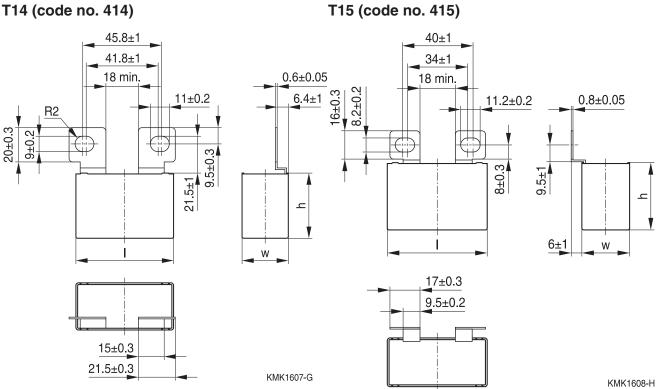


B32656S, B32658S

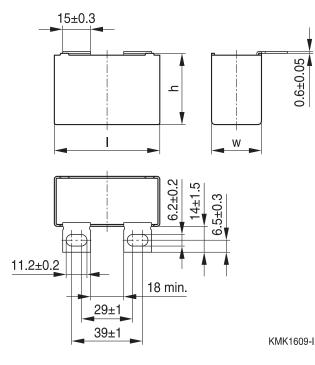
Snubber (wound)

Dimensional drawings

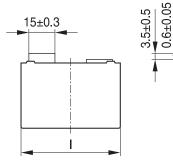


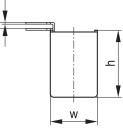


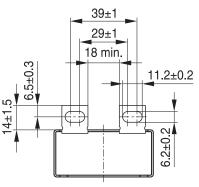
T16 (code no. 416)



T17 (code no. 417)







KMK1610-J



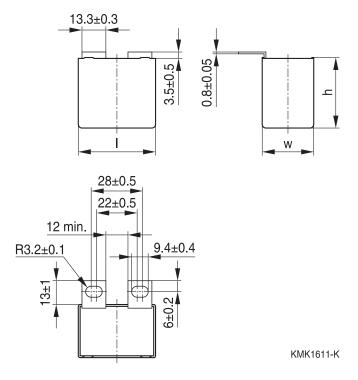


B32656S, B32658S

Snubber (wound)

Dimensional drawings

T18 (code no. 418)





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B32656S, B32658S

Snubber (wound)

Overview of available types

Туре	B3265	6S				B32658	3S			
V _R (V DC)	850	1000	1250	1700	2000	850	1000	1250	1700	2000
V _{RMS} (V AC)	450	480	500	750	800	450	480	500	750	800
C _R (nF)										
68										
100										
120										
150										
220										
270										
330										
390										
470										
560										
680										
820										
900										
1000										
1200										
1400										
1500										
1800										
2200										
2700										
3000										
3300										
4000										
4200										
4500										
4700										
5000										
5600										



B32656S Snubber (wound)

MKP

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Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
850	450	560	$14.0\times25.0\times42.0$	8.0	9.0	B32656S8564+408	T8	288
		560	$14.0\times25.0\times42.0$	8.0	9.0	B32656S8564+418	T18	288
		560	$14.0\times25.0\times42.0$	8.0	9.0	B32656S8564+563	Т3	168
		560	$14.0\times25.0\times42.0$	8.0	9.0	B32656S8564+564	T4	288
		560	$14.0\times25.0\times42.0$	8.0	9.0	B32656S8564+565	T5	288
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+408	T8	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+409	Т9	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+411	T11	128
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+418	T18	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+561	T1	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+562	T2	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+563	T3	144
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+564	T4	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+565	T5	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+566	T6	192
		680	$16.0\times28.5\times42.0$	9.5	7.0	B32656S8684+577	T7	180
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+408	T8	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+409	T9	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+411	T11	128
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+418	T18	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+561	T1	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+562	T2	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+563	Т3	144
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+564	T4	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+565	T5	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+566	T6	192
		820	$16.0\times28.5\times42.0$	10.0	6.0	B32656S8824+577	T7	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

B32656S

Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
850	450	1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+408	T8	140
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+409	Т9	140
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+411	T11	112
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+418	T18	140
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+561	T1	140
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+562	T2	140
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+563	Т3	120
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+564	T4	128
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+565	T5	128
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+566	T6	140
		1000	$18.0\times32.5\times42.0$	11.5	6.0	B32656S8105+577	T7	156
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+408	T8	140
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+409	T9	140
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+411	T11	112
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+418	T18	140
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+561	T1	140
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+562	T2	140
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+563	T3	120
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+564	T4	128
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+565	T5	128
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+566	T6	140
		1200	$18.0\times32.5\times42.0$	12.5	5.0	B32656S8125+577	T7	156
		1500	$31.0\times26.5\times43.6$	14.0	5.0	B32656S8155+408	T8	128
		1500	$31.0\times26.5\times43.6$	14.0	5.0	B32656S8155+409	T9	128
		1500	$31.0\times26.5\times43.6$	14.0	5.0	B32656S8155+418	T18	128
		1500	$31.0\times26.5\times43.6$	14.0	5.0	B32656S8155+561	T1	128
		1500	$31.0\times26.5\times43.6$	14.0	5.0	B32656S8155+562	T2	128
		1500			5.0	B32656S8155+563	Т3	72
		1500	$31.0\times26.5\times43.6$	14.0	5.0	B32656S8155+566	T6	128
		1500	$31.0\times26.5\times43.6$	14.0	5.0	B32656S8155+577	T7	84

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

Further E series and intermediate capacitance values on request.

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



B32656S Snubber (wound)

MKP

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
850	450	1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+408	T8	108
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+409	Т9	108
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+410	T10	80
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+411	T11	72
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+418	T18	108
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+561	T1	108
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+562	T2	108
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+563	Т3	96
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+566	T6	108
		1800	$28.0\times37.0\times42.0$	15.5	4.5	B32656S8185+577	T7	96
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+408	T8	48
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+409	T9	48
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+410	T10	80
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+411	T11	64
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+418	T18	48
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+561	T1	48
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+562	T2	48
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+563	T3	96
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+566	T6	48
		2200	$30.0\times45.0\times42.0$	17.0	4.0	B32656S8225+577	T7	96
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+408	T8	48
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+409	T9	48
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+410	T10	80
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+411	T11	64
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+418	T18	48
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+561	T1	48
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+562	T2	48
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+563	Т3	96
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+566	T6	48
		2700	$30.0\times45.0\times42.0$	20.0	3.7	B32656S8275+577	T7	96

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

B32656S

Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
850	450	3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+408	T8	84
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+409	Т9	84
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+410	T10	60
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+411	T11	56
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+418	T18	84
		3300	33.0 imes 48.0 imes 43.0	23.0	3.3	B32656S8335+561	T1	84
		3300	$33.0\times48.0\times43.0$	23.0	3.3	B32656S8335+562	T2	84
		3300	$33.0\times48.0\times43.0$	23.0	3.3	B32656S8335+563	Т3	64
		3300	$33.0\times48.0\times43.0$	23.0	3.3	B32656S8335+566	T6	84
		3300	$33.0\times48.0\times43.0$	23.0	3.3	B32656S8335+577	T7	84
1000	480	330	$14.0\times25.0\times42.0$	7.0	13.0	B32656S0334+408	T8	288
		330	$14.0\times25.0\times42.0$	7.0	13.0	B32656S0334+418	T18	288
		330	$14.0\times25.0\times42.0$	7.0	13.0	B32656S0334+563	Т3	168
		330	$14.0\times25.0\times42.0$	7.0	13.0	B32656S0334+564	T4	288
		330	$14.0\times25.0\times42.0$	7.0	13.0	B32656S0334+565	T5	288
		390	$14.0\times25.0\times42.0$	7.5	11.0	B32656S0394+408	T8	288
		390	$14.0\times25.0\times42.0$	7.5	11.0	B32656S0394+418	T18	288
		390	$14.0\times25.0\times42.0$	7.5	11.0	B32656S0394+563	Т3	168
		390	$14.0\times25.0\times42.0$	7.5	11.0	B32656S0394+564	T4	288
		390	$14.0\times25.0\times42.0$	7.5	11.0	B32656S0394+565	T5	288
		470	$14.0\times25.0\times42.0$	8.0	10.0	B32656S0474+408	T8	288
		470	$14.0\times25.0\times42.0$	8.0	10.0	B32656S0474+418	T18	288
		470	$14.0\times25.0\times42.0$	8.0	10.0	B32656S0474+563	Т3	168
		470	$14.0\times25.0\times42.0$	8.0	10.0	B32656S0474+564	T4	288
		470	$14.0\times25.0\times42.0$	8.0	10.0	B32656S0474+565	T5	288
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+408	T8	192
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+409	Т9	192
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+411	T11	128
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+418	T18	192

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%

 $J = \pm 5\%$



B32656S Snubber (wound)

MKP

 $\left[\right]$

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1000	480	560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+561	T1	192
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+562	T2	192
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+563	Т3	144
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+564	T4	192
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+565	T5	192
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+566	T6	192
		560	$16.0\times28.5\times42.0$	9.0	8.0	B32656S0564+577	T7	180
		680	$16.0\times28.5\times42.0$	10.5	6.5	B32656S0684+408	T8	192
		680	$16.0\times28.5\times42.0$	10.5	6.5	B32656S0684+409	Т9	192
		680	$16.0\times28.5\times42.0$	10.5	6.5	B32656S0684+411	T11	128
		680	$16.0\times28.5\times42.0$	10.5	6.5	B32656S0684+418	T18	192
		680	$16.0 \times 28.5 \times 42.0$	10.5	6.5	B32656S0684+561	T1	192
		680	$16.0 \times 28.5 \times 42.0$	10.5	6.5	B32656S0684+562	T2	192
		680	$16.0 \times 28.5 \times 42.0$	10.5	6.5	B32656S0684+563	Т3	144
		680	$16.0 \times 28.5 \times 42.0$		6.5	B32656S0684+564	T4	192
		680	$16.0 \times 28.5 \times 42.0$		6.5	B32656S0684+565	T5	192
		680	$16.0 \times 28.5 \times 42.0$	10.5	6.5	B32656S0684+566	T6	192
		680	$16.0 \times 28.5 \times 42.0$	10.5	6.5	B32656S0684+577	T7	180
		680	$19.0\times37.5\times42.0$		3.0	B32656S0684+412	T12	264
		820	$18.0\times32.5\times42.0$	11.5	6.0	B32656S0824+408	T8	140
		820	$18.0\times32.5\times42.0$	11.5	6.0	B32656S0824+409	Т9	140
		820	$18.0\times32.5\times42.0$	11.5	6.0	B32656S0824+411	T11	112
		820	$18.0\times32.5\times42.0$	11.5	6.0	B32656S0824+418	T18	140
		820	$18.0\times32.5\times42.0$	11.5	6.0	B32656S0824+561	T1	140
		820	$18.0\times32.5\times42.0$	11.5	6.0	B32656S0824+562	T2	140
		820	$18.0\times32.5\times42.0$		6.0	B32656S0824+563	Т3	120
		820	$18.0\times32.5\times42.0$		6.0	B32656S0824+564	T4	128
		820	$18.0\times32.5\times42.0$		6.0	B32656S0824+565	T5	128
		820	$18.0\times32.5\times42.0$		6.0	B32656S0824+566	T6	140
		820	$18.0\times32.5\times42.0$		6.0	B32656S0824+577	T7	156
		1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+408	T8	96
		1000	$20.0\times39.5\times42.0$		6.0	B32656S0105+409	T9	96
		1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+410	T10	120

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

B32656S

Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1000	480	1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+411	T11	96
		1000	$20.0\times 39.5\times 42.0$	13.0	6.0	B32656S0105+418	T18	96
		1000	$20.0\times 39.5\times 42.0$	13.0	6.0	B32656S0105+561	T1	96
		1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+562	T2	96
		1000	$20.0\times 39.5\times 42.0$	13.0	6.0	B32656S0105+563	Т3	104
		1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+564	T4	96
		1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+565	T5	96
		1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+566	T6	96
		1000	$20.0\times39.5\times42.0$	13.0	6.0	B32656S0105+577	T7	144
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+408	T8	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+409	Т9	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+410	T10	120
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+411	T11	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+418	T18	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+561	T1	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+562	T2	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+563	Т3	104
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+564	T4	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+565	T5	96
		1200	$20.0\times 39.5\times 42.0$	14.0	5.0	B32656S0125+566	T6	96
		1200	$20.0\times39.5\times42.0$	14.0	5.0	B32656S0125+577	T7	144
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+408	T8	48
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+409	Т9	48
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+410	T10	80
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+411	T11	64
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+418	T18	48
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+561	T1	48
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+562	T2	48
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+563	Т3	96
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+566	T6	48
		1500	$30.0\times45.0\times42.0$	16.5	5.0	B32656S0155+577	T7	96

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

Further E series and intermediate capacitance values on request.

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



B32656S Snubber (wound)

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Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1000	480	1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+408	T8	48
		1800	30.0 imes 45.0 imes 42.0	17.0	4.5	B32656S0185+409	Т9	48
		1800	$30.0 \times 45.0 \times 42.0$	17.0	4.5	B32656S0185+410	T10	48
		1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+411	T11	64
		1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+418	T18	48
		1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+561	T1	48
		1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+562	T2	48
		1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+563	Т3	96
		1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+566	T6	48
		1800	$30.0\times45.0\times42.0$	17.0	4.5	B32656S0185+577	T7	96
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+408	T8	48
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+409	Т9	48
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+410	T10	80
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+411	T11	64
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+418	T18	48
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+561	T1	48
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+562	T2	48
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+563	Т3	96
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+566	T6	48
		2200	$30.0\times45.0\times42.0$	19.0	4.0	B32656S0225+577	T7	96
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+408	T8	84
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+409	Т9	84
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+410	T10	60
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+411	T11	56
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+418	T18	84
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+561	T1	84
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+562	T2	84
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+563	Т3	64
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+566	T6	84
		2700	$33.0\times48.0\times43.0$	22.0	3.3	B32656S0275+577	T7	84

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

Further E series and intermediate capacitance values on request.

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



B32656S

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Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1250	500	220	$14.0\times25.0\times42.0$	7.0	11.5	B32656S7224+408	T8	288
		220	$14.0\times25.0\times42.0$	7.0	11.5	B32656S7224+418	T18	288
		220	$14.0\times25.0\times42.0$	7.0	11.5	B32656S7224+563	Т3	168
		220	$14.0\times25.0\times42.0$	7.0	11.5	B32656S7224+564	T4	288
		220	$14.0\times25.0\times42.0$	7.0	11.5	B32656S7224+565	T5	288
		270	$14.0\times25.0\times42.0$	8.0	10.0	B32656S7274+408	T8	288
		270	$14.0\times25.0\times42.0$	8.0	10.0	B32656S7274+418	T18	288
		270	$14.0\times25.0\times42.0$	8.0	10.0	B32656S7274+563	Т3	168
		270	$14.0\times25.0\times42.0$	8.0	10.0	B32656S7274+564	T4	288
		270	$14.0\times25.0\times42.0$	8.0	10.0	B32656S7274+565	T5	288
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+408	Т8	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+409	Т9	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+411	T11	128
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+418	T18	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+561	T1	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+562	T2	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+563	Т3	144
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+564	T4	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+565	T5	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+566	T6	192
		330	$16.0\times28.5\times42.0$	8.5	9.5	B32656S7334+577	T7	180
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+408	T8	140
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+409	Т9	140
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+411	T11	112
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+418	T18	140
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+561	T1	140
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+562	T2	140
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+563	Т3	120
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+564	T4	128
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+565	T5	128
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+566	Т6	140
		390	$18.0\times32.5\times42.0$	9.0	9.0	B32656S7394+577	T7	156

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%

$$J = \pm 5\%$$



B32656S Snubber (wound)

MKP

Ordering codes and packing units

V _R	V_{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1250	500	470	$18.0 \times 32.5 \times 42.0$	9.0	8.5	B32656S7474+408	T8	140
		470	18.0 imes 32.5 imes 42.0	9.0	8.5	B32656S7474+409	Т9	140
		470	18.0 imes 32.5 imes 42.0	9.0	8.5	B32656S7474+411	T11	112
		470	18.0 imes 32.5 imes 42.0	9.0	8.5	B32656S7474+418	T18	140
		470	$18.0\times32.5\times42.0$	9.0	8.5	B32656S7474+561	T1	140
		470	$18.0\times32.5\times42.0$	9.0	8.5	B32656S7474+562	T2	140
		470	$18.0\times32.5\times42.0$	9.0	8.5	B32656S7474+563	Т3	120
		470	$18.0\times32.5\times42.0$	9.0	8.5	B32656S7474+564	T4	128
		470	$18.0\times32.5\times42.0$	9.0	8.5	B32656S7474+565	T5	128
		470	$18.0\times32.5\times42.0$	9.0	8.5	B32656S7474+566	T6	140
		470	$18.0\times32.5\times42.0$	9.0	8.5	B32656S7474+577	T7	156
		470	$19.0\times37.5\times42.0$	17.0	4.0	B32656S7474+412	T12	264
		560	$20.0\times 39.5\times 42.0$	11.0	7.0	B32656S7564+408	T8	96
		560	$20.0\times 39.5\times 42.0$	11.0	7.0	B32656S7564+409	T9	96
		560	$20.0\times 39.5\times 42.0$	11.0	7.0	B32656S7564+410	T10	120
		560	$20.0\times 39.5\times 42.0$	11.0	7.0	B32656S7564+411	T11	96
		560	$20.0\times39.5\times42.0$	11.0	7.0	B32656S7564+418	T18	96
		560	$20.0\times 39.5\times 42.0$	11.0	7.0	B32656S7564+561	T1	96
		560	$20.0\times39.5\times42.0$	11.0	7.0	B32656S7564+562	T2	96
		560	$20.0\times39.5\times42.0$	11.0	7.0	B32656S7564+563	T3	104
		560	$20.0\times39.5\times42.0$	11.0	7.0	B32656S7564+564	T4	96
		560	$20.0\times39.5\times42.0$	11.0	7.0	B32656S7564+565	T5	96
		560	$20.0\times39.5\times42.0$	11.0	7.0	B32656S7564+566	T6	96
		560	$20.0\times39.5\times42.0$	11.0	7.0	B32656S7564+577	T7	144
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+408	T8	96
		680	$20.0\times39.5\times42.0$		6.0	B32656S7684+409	Т9	96
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+410	T10	120
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+411	T11	96
		680	$20.0\times39.5\times42.0$		6.0	B32656S7684+418	T18	96
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+561	T1	96
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+562	T2	96

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

Further E series and intermediate capacitance values on request.

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



MKP

B32656S

Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1250	500	680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+563	T3	104
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+564	T4	96
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+565	T5	96
		680	$20.0\times39.5\times42.0$	13.0	6.0	B32656S7684+566	T6	96
		680	$20.0\times 39.5\times 42.0$	13.0	6.0	B32656S7684+577	T7	144
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+408	T8	108
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+409	Т9	108
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+410	T10	80
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+411	T11	72
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+418	T18	108
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+561	T1	108
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+562	T2	108
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+563	T3	96
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+566	T6	108
		820	$28.0\times37.0\times42.0$	14.0	5.5	B32656S7824+577	T7	96
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+408	T8	108
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+409	T9	108
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+410	T10	80
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+411	T11	72
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+418	T18	108
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+561	T1	108
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+562	T2	108
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+563	T3	96
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+566	T6	108
		1000	$28.0\times37.0\times42.0$	15.5	5.0	B32656S7105+577	T7	96
		1200	$30.0\times45.0\times42.0$	17.0	4.5	B32656S7125+408	T8	48
		1200	$30.0\times45.0\times42.0$	17.0	4.5	B32656S7125+409	Т9	48
		1200	$30.0\times45.0\times42.0$	17.0	4.5	B32656S7125+410	T10	80
		1200	$30.0\times45.0\times42.0$	17.0	4.5	B32656S7125+411	T11	64
		1200	$30.0\times45.0\times42.0$	17.0	4.5	B32656S7125+418	T18	48

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

Further E series and intermediate capacitance values on request.

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



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B32656S Snubber (wound)

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Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR	Ordering code	Ter-	pcs./
- n	f≤1kHz	Ψn	w×h×l	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	A	mΩ	below)	minar	MOG
1250	500	1200	30.0 × 45.0 × 42.0		4.5	B32656S7125+561	T1	48
1200	000	1200	$30.0 \times 45.0 \times 42.0$		4.5	B32656S7125+562	T2	48
		1200	$30.0 \times 45.0 \times 42.0$		4.5	B32656S7125+563	T3	96
		1200	$30.0 \times 45.0 \times 42.0$		4.5	B32656S7125+566	T6	48
		1200	$30.0 \times 45.0 \times 42.0$		4.5	B32656S7125+577	T7	96
		1500	30.0 × 45.0 × 42.0		4.0	B32656S7155+408	T8	48
		1500	$30.0 \times 45.0 \times 42.0$	19.0	4.0	B32656S7155+409	Т9	48
		1500	$30.0 \times 45.0 \times 42.0$	19.0	4.0	B32656S7155+410	T10	80
		1500	$30.0 \times 45.0 \times 42.0$	19.0	4.0	B32656S7155+411	T11	64
		1500	$30.0 \times 45.0 \times 42.0$	19.0	4.0	B32656S7155+418	T18	48
		1500	$30.0\times45.0\times42.0$	19.0	4.0	B32656S7155+561	T1	48
		1500	$30.0\times45.0\times42.0$	19.0	4.0	B32656S7155+562	T2	48
		1500	$30.0\times45.0\times42.0$	19.0	4.0	B32656S7155+563	Т3	96
		1500	$30.0\times45.0\times42.0$	19.0	4.0	B32656S7155+566	T6	48
		1500	$30.0\times45.0\times42.0$	19.0	4.0	B32656S7155+577	T7	96
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+408	T8	84
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+409	Т9	84
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+410	T10	60
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+411	T11	56
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+418	T18	84
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+561	T1	84
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+562	T2	84
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+563	Т3	64
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+566	T6	84
		1800	$33.0\times48.0\times43.0$	22.0	3.5	B32656S7185+577	T7	84
1700	750	120	$14.0\times25.0\times42.0$	6.5	14.0	B32656S1124+408	T8	288
		120	$14.0\times25.0\times42.0$	6.5	14.0	B32656S1124+418	T18	288
		120	$14.0\times25.0\times42.0$	6.5	14.0	B32656S1124+563	Т3	168
		120	$14.0\times25.0\times42.0$	6.5	14.0	B32656S1124+564	T4	288
		120	$14.0\times25.0\times42.0$	6.5	14.0	B32656S1124+565	T5	288

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

Further E series and intermediate capacitance values on request.

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



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B32656S

Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1700	750	150	$14.0\times25.0\times42.0$	7.0	13.0	B32656S1154+408	T8	288
		150	14.0 imes 25.0 imes 42.0	7.0	13.0	13.0 B32656S1154+418		288
		150	$14.0\times25.0\times42.0$	7.0	13.0	B32656S1154+563	Т3	168
		150	$14.0\times25.0\times42.0$	7.0	13.0	B32656S1154+564	T4	288
		150	$14.0\times25.0\times42.0$	7.0	13.0	B32656S1154+565	T5	288
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+408	T8	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+409	Т9	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+411	T11	128
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+418	T18	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+561	T1	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+562	T2	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+563	Т3	144
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+564	T4	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+565	T5	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+566	T6	192
		220	$16.0\times28.5\times42.0$	8.5	10.5	B32656S1224+577	T7	180
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+408	Т8	140
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+409	Т9	140
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+411	T11	112
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+418	T18	140
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+561	T1	140
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+562	T2	140
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+563	Т3	120
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+564	T4	128
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+565	T5	128
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+566	Т6	140
		270	$18.0\times32.5\times42.0$	9.5	9.0	B32656S1274+577	T7	156

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:

 $K = \pm 10\%$

 $J = \pm 5\%$



B32656S Snubber (wound)

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Ordering codes and packing units

V _R	V_{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1700	750	330	$20.0\times39.5\times42.0$	12.0	8.0	B32656S1334+408	T8	96
		330	$20.0\times39.5\times42.0$	12.0	8.0	B32656S1334+409	Т9	96
		330	$20.0\times 39.5\times 42.0$	12.0	8.0	B32656S1334+410	T10	120
		330	$20.0\times 39.5\times 42.0$	12.0	8.0	B32656S1334+411	T11	96
		330	$20.0\times39.5\times42.0$	12.0	8.0	B32656S1334+418	T18	96
		330	$20.0\times 39.5\times 42.0$	12.0	8.0	B32656S1334+561	T1	96
		330	$20.0\times 39.5\times 42.0$	12.0	8.0	B32656S1334+562	T2	96
		330	$20.0\times 39.5\times 42.0$	12.0	8.0	B32656S1334+563	Т3	104
			$20.0\times 39.5\times 42.0$	12.0	8.0	B32656S1334+564	T4	96
		330	$20.0\times 39.5\times 42.0$	12.0	8.0	B32656S1334+565	T5	96
		330	$20.0\times39.5\times42.0$	12.0	8.0	B32656S1334+566	T6	96
		330	$20.0\times39.5\times42.0$	12.0	8.0	B32656S1334+577	T7	144
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+408	T8	108
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+409	Т9	108
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+410	T10	80
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+411	T11	72
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+418	T18	108
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+561	T1	108
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+562	T2	108
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+563	Т3	96
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+566	T6	108
		390	$28.0\times37.0\times42.0$	13.5	7.0	B32656S1394+577	T7	96
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+408	T8	108
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+409	Т9	108
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+410	T10	72
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+411	T11	108
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+418	T18	108
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+561	T1	108
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+562	T2	108
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+563	Т3	96
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+566	T6	108
		470	$28.0\times37.0\times42.0$	14.5	6.0	B32656S1474+577	T7	96

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%

$$J = \pm 5\%$$



B32656S

MKP

Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1700	750	560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+408	T8	48
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+409	Т9	48
		560	$30.0\times45.0\times42.0$	16.5	5.5	5.5 B32656S1564+410		80
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+411	T11	64
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+418	T18	48
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+561	T1	48
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+562	T2	48
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+563	Т3	96
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+566	T6	48
		560	$30.0\times45.0\times42.0$	16.5	5.5	B32656S1564+577	T7	96
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+408	T8	48
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+409	T9	48
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+410	T10	80
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+411	T11	64
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+418	T18	48
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+561	T1	48
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+562	T2	48
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+563	Т3	96
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+566	T6	48
		680	$30.0\times45.0\times42.0$	18.0	5.0	B32656S1684+577	T7	96
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+408	T8	84
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+409	T9	84
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+410	T10	60
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+411	T11	56
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+418	T18	84
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+561	T1	84
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+562	T2	84
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+563	Т3	64
		820	$33.0\times48.0\times43.0$		4.0	B32656S1824+566	T6	84
		820	$33.0\times48.0\times43.0$	20.0	4.0	B32656S1824+577	T7	84

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

Further E series and intermediate capacitance values on request.

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



B32656S Snubber (wound)

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Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
2000	800	68	$14.0\times25.0\times42.0$	6.0	17.0	B32656S2683+408	T8	288
		68	$14.0\times25.0\times42.0$	6.0	17.0	B32656S2683+418	T18	288
		68	$14.0\times25.0\times42.0$	6.0	17.0	B32656S2683+563	Т3	168
		68	$14.0\times25.0\times42.0$	6.0	17.0	B32656S2683+564	T4	288
		68	$14.0\times25.0\times42.0$	6.0	17.0	B32656S2683+565	T5	288
		100	$14.0\times25.0\times42.0$	6.5	15.0	B32656S2104+408	T8	288
		100	$14.0\times25.0\times42.0$	6.5	15.0	B32656S2104+418	T18	288
		100	$14.0\times25.0\times42.0$	6.5	15.0	B32656S2104+563	Т3	168
		100	$14.0\times25.0\times42.0$	6.5	15.0	B32656S2104+564	T4	288
		100	$14.0\times25.0\times42.0$	6.5	15.0	B32656S2104+565	T5	288
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+408	T8	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+409	T9	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+411	T11	128
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+418	T18	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+561	T1	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+562	T2	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+563	Т3	144
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+564	T4	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+565	T5	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+566	T6	192
		120	$16.0\times28.5\times42.0$	7.0	14.0	B32656S2124+577	T7	180
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+408	T8	140
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+409	T9	140
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+411	T11	112
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+418	T18	140
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+561	T1	140
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+562	T2	140
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+563	Т3	120
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+564	T4	128
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+565	T5	128
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+566	T6	140
		150	$18.0\times32.5\times42.0$	8.0	13.0	B32656S2154+577	T7	156

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%

$$J = \pm 5\%$$



B32656S

MKP

Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
2000	800	220	$20.0\times39.5\times42.0$	11.0	9.0	B32656S2224+408	T8	96
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+409	Т9	96
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+410	T10	120
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+411	T11	96
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+418	T18	96
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+561	T1	96
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+562	T2	96
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+563	Т3	104
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+564	T4	96
		220 20.0 × 39.5 × 42.0 11.0 9.0 B32656S2224+565		T5	96			
		220	$20.0\times 39.5\times 42.0$	11.0	9.0	B32656S2224+566	T6	96
		220	$20.0\times39.5\times42.0$	11.0	9.0	B32656S2224+577	T7	144
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+408	T8	108
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+409	Т9	108
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+410	T10	80
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+411	T11	72
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+418	T18	108
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+561	T1	108
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+562	T2	108
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+563	Т3	96
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+566	T6	108
		270	$28.0\times37.0\times42.0$	12.5	8.0	B32656S2274+577	T7	96
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+408	T8	108
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+409	Т9	108
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+410	T10	80
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+411	T11	72
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+418	T18	108
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+561	T1	108
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+562	T2	108
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+563	Т3	96
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+566	T6	108
		330	$28.0\times37.0\times42.0$	14.0	6.5	B32656S2334+577	T7	96

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%

$$J = \pm 5\%$$



B32656S Snubber (wound)

MKP

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
2000	800	390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+408	T8	48
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+409	Т9	48
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+410	T10	80
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+411	T11	64
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+418	T18	48
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+561	T1	48
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+562	T2	48
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+563	Т3	96
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+566	T6	48
		390	$30.0\times45.0\times42.0$	15.0	6.5	B32656S2394+577	T7	96
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+408	T8	48
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+409	Т9	48
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+410	T10	80
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+411	T11	64
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+418	T18	48
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+561	T1	48
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+562	T2	48
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+563	Т3	96
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+566	T6	48
		470	$30.0\times45.0\times42.0$	17.0	5.5	B32656S2474+577	T7	96
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+408	T8	84
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+409	Т9	84
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+410	T10	60
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+411	T11	56
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+418	T18	84
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+561	T1	84
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+562	T2	84
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+563	Т3	64
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+566	T6	84
		560	$33.0\times48.0\times43.0$	19.0	4.5	B32656S2564+577	T7	84

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

Further E series and intermediate capacitance values on request.

- + = Capacitance tolerance code:
 - K = ±10%



B32658S

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Snubber (wound)

Ordering codes and packing units

Image Image W × h × 1 mm 100 kHz A 100 kHz mΩ (composition see below) minal below) MC 850 450 1500 22.5 × 33.0 × 57.5 12.0 7.0 B3265888155+416 T16 88 1600 22.5 × 33.0 × 57.5 13.0 6.5 B3265888155+416 T16 88 1800 22.5 × 33.0 × 57.5 13.0 6.5 B3265888185+416 T16 88 2200 22.5 × 33.0 × 57.5 14.5 5.5 B326588225+414 T14 88 2200 22.5 × 33.0 × 57.5 18.0 5.0 B326588275+416 T16 88 2700 27.0 × 39.5 × 57.5 18.0 5.0 B326588275+416 T16 72 2700 27.0 × 39.5 × 57.5 18.0 5.0 B326588305+416 T16 72 2700 27.0 × 39.5 × 57.5 18.0 5.0 B326588305+417 T17 72 3000 27.0 × 39.5 × 57.5 19.0 4.5 B326588305+416 T16 72 <t< th=""><th>V_R</th><th>V_{RMS}</th><th>C_R</th><th>Max. dimensions</th><th>I_{RMS}</th><th>ESR_{typ}</th><th>Ordering code</th><th>Ter-</th><th>pcs./</th></t<>	V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	V DC	V AC	nF	mm	А	m Ω	below)		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	850	450	1500	$22.5\times33.0\times57.5$	12.0	7.0	B32658S8155+414	T14	88
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$			1500	$22.5\times33.0\times57.5$	12.0	7.0	B32658S8155+416	T16	88
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			1800	$22.5\times33.0\times57.5$	13.0	6.5	B32658S8185+414	T14	88
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			1800	$22.5\times33.0\times57.5$	13.0	6.5	B32658S8185+416	T16	88
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2200	$22.5\times33.0\times57.5$	14.5	5.5	B32658S8225+414	T14	88
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2200	$22.5\times33.0\times57.5$	14.5	5.5	B32658S8225+416	T16	88
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2700	$27.0\times39.5\times57.5$	18.0	5.0	B32658S8275+414	T14	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2700	$27.0\times39.5\times57.5$	18.0	5.0	B32658S8275+415	T15	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2700	$27.0\times39.5\times57.5$	18.0	5.0	B32658S8275+416	T16	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2700	$27.0\times39.5\times57.5$	18.0	5.0	B32658S8275+417	T17	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3000	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8305+414	T14	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3000	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8305+415	T15	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3000	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8305+416	T16	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3000	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8305+417	T17	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3300	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8335K414	T14	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3300	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8335K415	T15	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3300	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8335K416	T16	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			3300	$27.0\times39.5\times57.5$	19.0	4.5	B32658S8335K417	T17	72
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			4000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S8405+414	T14	64
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			4000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S8405+415	T15	64
4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+414 T14 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+415 T15 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+416 T16 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+416 T16 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+416 T16 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+417 T17 64 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+414 T14 56 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+415 T15 56			4000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S8405+416	T16	64
4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+415 T15 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+416 T16 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+416 T16 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+416 T17 64 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+414 T14 56 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+415 T15 56			4000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S8405+417	T17	64
4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+416 T16 64 4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+417 T17 64 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+414 T14 56 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+415 T15 56			4500	$30.0\times45.0\times57.5$	22.0	3.7	B32658S8455+414	T14	64
4500 30.0 × 45.0 × 57.5 22.0 3.7 B32658S8455+417 T17 64 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+414 T14 56 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+415 T15 56			4500	$30.0\times45.0\times57.5$	22.0	3.7	B32658S8455+415	T15	64
4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+414 T14 56 4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+415 T15 56			4500	$30.0\times45.0\times57.5$	22.0	3.7	B32658S8455+416	T16	64
4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+415 T15 56			4500	$30.0\times45.0\times57.5$	22.0	3.7	B32658S8455+417	T17	64
			4700	$35.0\times50.0\times57.5$	23.0	3.5	B32658S8475+414	T14	56
4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+416 T16 56			4700	$35.0\times50.0\times57.5$	23.0	3.5	B32658S8475+415	T15	56
			4700	$35.0\times50.0\times57.5$	23.0	3.5	B32658S8475+416	T16	56
4700 35.0 × 50.0 × 57.5 23.0 3.5 B32658S8475+417 T17 56			4700	$35.0\times50.0\times57.5$	23.0	3.5	B32658S8475+417	T17	56

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

Further E series and intermediate capacitance values on request.

- + = Capacitance tolerance code:
 - K = ±10%



B32658S Snubber (wound)

MKP

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Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
850	450	5000	$35.0 \times 50.0 \times 57.5$	24.0	3.2	B32658S8505+414	T14	56
		5000	$35.0 \times 50.0 \times 57.5$	24.0	3.2	B32658S8505+415	T15	56
		5000	$35.0 \times 50.0 \times 57.5$	24.0	3.2	B32658S8505+416	T16	56
		5000	$35.0 \times 50.0 \times 57.5$	24.0	3.2	B32658S8505+417	T17	56
		5600	$35.0\times50.0\times57.5$	27.0	2.8	B32658S8565+414	T14	56
		5600	$35.0 \times 50.0 \times 57.5$	27.0	2.8	B32658S8565+415	T15	56
		5600	$35.0 \times 50.0 \times 57.5$	27.0	2.8	B32658S8565+416	T16	56
		5600	$35.0\times50.0\times57.5$	27.0	2.8	B32658S8565+417	T17	56
1000	480	1000	$22.5\times33.0\times57.5$	11.0	8.0	B32658S0105+414	T14	88
		1000	$22.5\times33.0\times57.5$	11.0	8.0	B32658S0105+416	T16	88
		1500	$22.5\times33.0\times57.5$	13.5	6.5	B32658S0155+414	T14	88
		1500	$22.5\times33.0\times57.5$	13.5	6.5	B32658S0155+416	T16	88
		1800	$27.0\times39.5\times57.5$	15.5	6.0	B32658S0185+414	T14	72
		1800	$27.0\times39.5\times57.5$	15.5	6.0	B32658S0185+415	T15	72
		1800	$27.0\times39.5\times57.5$	15.5	6.0	B32658S0185+416	T16	72
		1800	$27.0\times39.5\times57.5$	15.5	6.0	B32658S0185+417	T17	72
		2200	$27.0\times39.5\times57.5$	17.0	5.0	B32658S0225+414	T14	72
		2200	$27.0\times39.5\times57.5$	17.0	5.0	B32658S0225+415	T15	72
		2200	$27.0\times39.5\times57.5$	17.0	5.0	B32658S0225+416	T16	72
		2200	$27.0\times39.5\times57.5$	17.0	5.0	B32658S0225+417	T17	72
		2700	$30.0\times45.0\times57.5$	20.0	4.5	B32658S0275+414	T14	64
		2700	$30.0\times45.0\times57.5$	20.0	4.5	B32658S0275+415	T15	64
		2700	$30.0\times45.0\times57.5$	20.0	4.5	B32658S0275+416	T16	64
		2700	$30.0\times45.0\times57.5$	20.0	4.5	B32658S0275+417	T17	64
		3000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S0305+414	T14	64
		3000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S0305+415	T15	64
		3000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S0305+416	T16	64
		3000	$30.0\times45.0\times57.5$	21.0	4.0	B32658S0305+417	T17	64
		3300	$35.0\times50.0\times57.5$	22.0	4.0	B32658S0335+414	T14	56
		3300	$35.0\times50.0\times57.5$	22.0	4.0	B32658S0335+415	T15	56
		3300	$35.0\times50.0\times57.5$	22.0	4.0	B32658S0335+416	T16	56
		3300	$35.0\times50.0\times57.5$	22.0	4.0	B32658S0335+417	T17	56

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%

$$J = \pm 5\%$$



B32658S

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Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1000	480	4000	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0405+414	T14	56
		4000	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0405+415	T15	56
		4000	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0405+416	T16	56
		4000	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0405+417	T17	56
		4200	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0425+414	T14	56
		4200	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0425+415	T15	56
		4200	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0425+416	T16	56
		4200	$35.0\times50.0\times57.5$	24.0	3.5	B32658S0425+417	T17	56
1250	500	820	$22.5\times33.0\times57.5$	11.5	7.5	B32658S7824+414	T14	88
		820	$22.5\times33.0\times57.5$	11.5	7.5	B32658S7824+416	T16	88
		1000	$22.5\times33.0\times57.5$	12.5	7.0	B32658S7105+414	T14	88
		1000	$22.5\times33.0\times57.5$	12.5	7.0	B32658S7105+416	T16	88
		1200	$27.0\times39.5\times57.5$	14.5	7.0	B32658S7125+414	T14	72
		1200	$27.0\times39.5\times57.5$	14.5	7.0	B32658S7125+415	T15	72
		1200	$27.0\times39.5\times57.5$	14.5	7.0	B32658S7125+416	T16	72
		1200	$27.0\times39.5\times57.5$	14.5	7.0	B32658S7125+417	T17	72
		1500	$27.0\times39.5\times57.5$	15.0	6.5	B32658S7155+414	T14	72
		1500	$27.0\times39.5\times57.5$	15.0	6.5	B32658S7155+415	T15	72
		1500	$27.0\times39.5\times57.5$	15.0	6.5	B32658S7155+416	T16	72
		1500	$27.0\times39.5\times57.5$	15.0	6.5	B32658S7155+417	T17	72
		1800	$27.0\times39.5\times57.5$	16.5	5.5	B32658S7185+414	T14	72
		1800	$27.0\times39.5\times57.5$	16.5	5.5	B32658S7185+415	T15	72
		1800	$27.0\times39.5\times57.5$	16.5	5.5	B32658S7185+416	T16	72
		1800	$27.0\times39.5\times57.5$	16.5	5.5	B32658S7185+417	T17	72
		2200	$30.0\times45.0\times57.5$	19.0	4.7	B32658S7225+414	T14	64
		2200	$30.0\times45.0\times57.5$	19.0	4.7	B32658S7225+415	T15	64
		2200	$30.0\times45.0\times57.5$	19.0	4.7	B32658S7225+416	T16	64
		2200	$30.0\times45.0\times57.5$	19.0	4.7	B32658S7225+417	T17	64
		2700	$35.0\times50.0\times57.5$	22.0	4.0	B32658S7275+414	T14	56
		2700	$35.0\times50.0\times57.5$	22.0	4.0	B32658S7275+415	T15	56
		2700	$35.0\times50.0\times57.5$	22.0	4.0	B32658S7275+416	T16	56
		2700	$35.0\times50.0\times57.5$	22.0	4.0	B32658S7275+417	T17	56

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%

$$J = \pm 5\%$$



B32658S Snubber (wound)

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Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times l$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
1250	500	3000	$35.0 \times 50.0 \times 57.5$	24.0	3.5	B32658S7305+414	T14	56
		3000	$35.0 \times 50.0 \times 57.5$	24.0	3.5	B32658S7305+415	T15	56
		3000	$35.0 \times 50.0 \times 57.5$	24.0	3.5	B32658S7305+416	T16	56
		3000	$35.0 \times 50.0 \times 57.5$	24.0	3.5	B32658S7305+417	T17	56
1700	750	470	$22.5\times33.0\times57.5$	11.5	9.0	B32658S1474+414	T14	88
		470	$22.5\times33.0\times57.5$	11.5	9.0	B32658S1474+416	T16	88
		680	$27.0\times39.5\times57.5$	14.5	7.5	B32658S1684+414	T14	72
		680	$27.0\times39.5\times57.5$	14.5	7.5	B32658S1684+415	T15	72
		680	$27.0\times39.5\times57.5$	14.5	7.5	B32658S1684+416	T16	72
		680	$27.0\times39.5\times57.5$	14.5	7.5	B32658S1684+417	T17	72
		1000	$30.0\times45.0\times57.5$	16.5	6.7	B32658S1105+414	T14	64
		1000	$30.0\times45.0\times57.5$	16.5	6.7	B32658S1105+415	T15	64
		1000	$30.0 \times 45.0 \times 57.5$	16.5	6.7	B32658S1105+416	T16	64
		1000	$30.0\times45.0\times57.5$	16.5	6.7	B32658S1105+417	T17	64
		1200	$35.0\times50.0\times57.5$	18.5	6.2	B32658S1125+414	T14	56
		1200	$35.0\times50.0\times57.5$	18.5	6.2	B32658S1125+415	T15	56
		1200	$35.0\times50.0\times57.5$	18.5	6.2	B32658S1125+416	T16	56
		1200	$35.0\times50.0\times57.5$	18.5	6.2	B32658S1125+417	T17	56
		1400	$35.0\times50.0\times57.5$	20.0	5.5	B32658S1145+414	T14	56
		1400	$35.0\times50.0\times57.5$	20.0	5.5	B32658S1145+415	T15	56
		1400	$35.0\times50.0\times57.5$	20.0	5.5	B32658S1145+416	T16	56
		1400	$35.0\times50.0\times57.5$	20.0	5.5	B32658S1145+417	T17	56
2000	800	330	$22.5\times33.0\times57.5$	11.5	9.0	B32658S2334+414	T14	88
		330	$22.5\times33.0\times57.5$	11.5	9.0	B32658S2334+416	T16	88
		470	$27.0\times39.5\times57.5$	14.0	8.0	B32658S2474+414	T14	72
		470	$27.0\times39.5\times57.5$	14.0	8.0	B32658S2474+415	T15	72
		470	$27.0\times39.5\times57.5$	14.0	8.0	B32658S2474+416	T16	72
		470	$27.0\times39.5\times57.5$	14.0	8.0	B32658S2474+417	T17	72
		680	$30.0\times45.0\times57.5$	16.5	7.0	B32658S2684+414	T14	64

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%

 $J = \pm 5\%$



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Snubber (wound)

Ordering codes and packing units

V _R	V _{RMS}	C _R	Max. dimensions	I _{RMS}	ESR _{typ}	Ordering code	Ter-	pcs./
	f≤1kHz		$w \times h \times I$	100 kHz	100 kHz	(composition see	minal	MOQ
V DC	V AC	nF	mm	А	mΩ	below)		
2000	800	680	$30.0\times45.0\times57.5$	16.5	7.0	B32658S2684+415	T15	64
		680	$30.0\times45.0\times57.5$	16.5	7.0	B32658S2684+416	T16	64
		680	$30.0\times45.0\times57.5$	16.5	7.0	B32658S2684+417	T17	64
		820	$35.0\times50.0\times57.5$	18.0	6.5	B32658S2824+414	T14	56
		820	$35.0\times50.0\times57.5$	18.0	6.5	B32658S2824+415	T15	56
		820	$35.0\times50.0\times57.5$	18.0	6.5	B32658S2824+416	T16	56
		820	$35.0\times50.0\times57.5$	18.0	6.5	B32658S2824+417	T17	56
		900	$35.0\times50.0\times57.5$	19.0	6.0	B32658S2904+414	T14	56
		900	$35.0\times50.0\times57.5$	19.0	6.0	B32658S2904+415	T15	56
		900	$35.0\times50.0\times57.5$	19.0	6.0	B32658S2904+416	T16	56
		900	$35.0\times50.0\times57.5$	19.0	6.0	B32658S2904+417	T17	56

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:

 $K = \pm 10\%$

 $J = \pm 5\%$



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Snubber (wound)

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	_	-		ure T _{op,max}	+110 °C		
	Upper ca	•••	•		+100 °C		
	Lower ca	tegory t	empera	ture T _{min}	−55 °C		
	Rated ter	nperatu	re T _R		+85 °C		
Dissipation factor $tan \delta$ (in 10 ⁻³)	at $C_{R} \le 0.1 \ \mu F$ 0.1		0.1 μF <c<sub>R≤</c<sub>	1 μF	C _R >1 μF		
at 20 $^\circ$ C (upper limit values)	1 kHz –			0.5		0.5	
	10 kHz	_		0.8		1.5	
	100 kHz	5.0		_		_	
Insulation resistance R _{ins} or	$C_{R} \leq 0.33$	βμF	$C_R > 0$).33 μF		·	
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			1		
Category voltage V_{c}	T _{op} (°C)	DC	voltage	derating	AC voltage	e derating	
(continuous operation with	$T_{op} \le 85$	V _C =	V_{R}		$V_{C,RMS} = V_{RM}$	IS	
V_{DC} or V_{AC} at f \leq 1 kHz)	85 <t<sub>op≤1</t<sub>	10 V _C =	$V_{R} \cdot (1$	65-T _{op})/80	$V_{C,RMS} = V_{RMS} \cdot (165 - T_{op})/80$		
Operating voltage V_{op} for	T _{op} (°C)	C) DC voltage (max. hours)			AC voltage (max. hours)		
short operating periods	$T_{op} \le 85$	$V_{\rm op} \le 85$ $V_{\rm op} = 1.25 \cdot V_{\rm C} (2000 \text{ h})$			$V_{op} = 1.0$ ·	V _{C,RMS} (2000 h)	
$(V_{DC} \text{ or } V_{AC} \text{ at } f \le 1 \text{ kHz})$	85 <t<sub>op≤1</t<sub>	00 V _{op} =	= 1.25 ·	V _c (1000 h)	$V_{op} = 1.0$ ·	V _{C,RMS} (1000 h)	
Biased humidity	1000 h / 4	40 °C / 9	93% rela	ative humidity	with V _{R,DC}		
Limit values after biased	Capacitance change $ \Delta C/C \leq 3\%$						
humidity test	Dissipatio	on facto	^r chang	$e \Delta tan \delta$	≤ 0.5 · 10 [.] 3 (at 1 kHz)		
					$\leq 1.0 \cdot 10^{-3}$	3 (at 10 kHz)	
	Insulatior	n resista	nce R _{ins}		\geq 50% of n	ninimum	
	or time co	onstant	$\tau = C_R \cdot$	R _{ins}	as-delivere	ed values	
Reliability:							
Failure rate λ		,		V _R , 40 °C			
Service life t _{sL}	200 000						
			-	for this produ	-		
				perating cor 2 Reliability		temperatures,	
Failure criteria:		-		,			
Total failure	Short circ	cuit or o	oen circ	uit			
Failure due to variation	Capacita	nce cha	nge ∣∆0	C/C	> 10%		
of parameters	Capacitance change $ \Delta C/C $ Dissipation factor tan δ			$> 4 \cdot upper limit value$			
	Insulation resistance R _{ins}			< 1500 MΩ (C _R ≤0.33 μF)			
	or time co				$< 500 \text{ s} (C_R > 0.33 \mu\text{F})$		



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Snubber (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 V²/µs.

Note:

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

V _R (V DC)	V _{RMS} (V AC)	dV/dt in V/µs	k _o in V²/μs
850	450	400	680 000
1000	480	450	900 000
1250	500	500	1 250 000
1700	750	600	1 920 000
2000	800	700	2 800 000

dV/dt and ko values B32656S

dV/dt and $k_{\scriptscriptstyle 0}$ values B32658S

V _R (V DC)	V _{RMS} (V AC)	dV/dt in V/μs	k_0 in V ² /µs
850	450	275	467 500
1000	480	300	600 000
1250	500	350	875 000
1700	750	400	1 360 000
2000	800	475	1 900 000

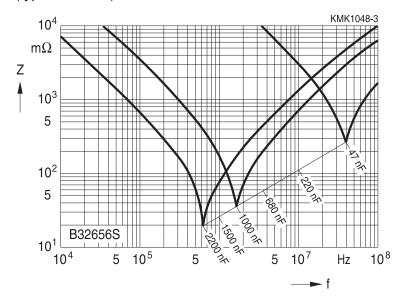




B32656S, B32658S Snubber (wound)

Impedance Z versus frequency f

(typical values)







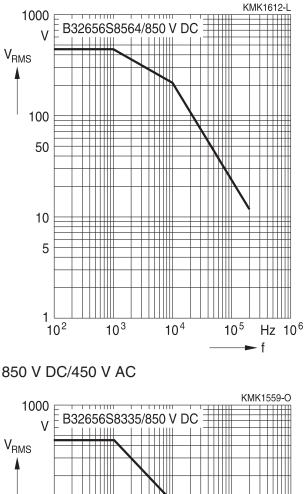


Snubber (wound)

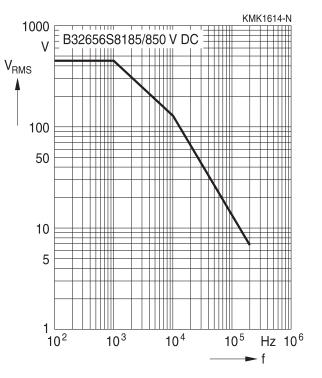
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, T_A ≤90 °C)

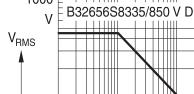
For $T_A > 90 \,^{\circ}C$, please refer to "General technical information", section 3.2.3.

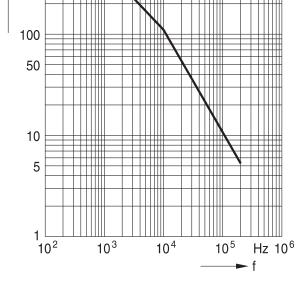




850 V DC/450 V AC









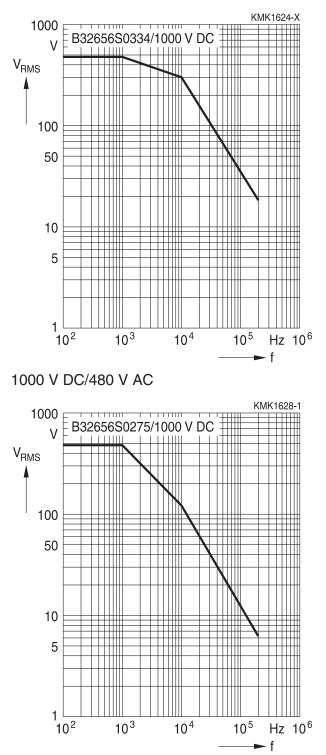


Snubber (wound)

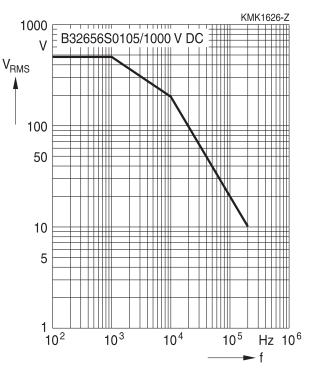
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)

For $T_A > 90 \,^{\circ}C$, please refer to "General technical information", section 3.2.3.

1000 V DC/480 V AC



1000 V DC/480 V AC







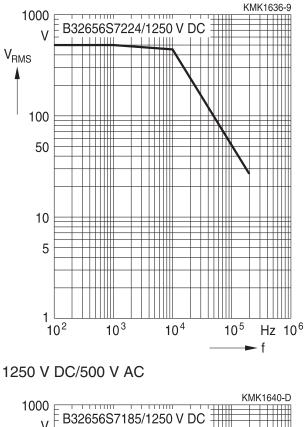
B32656S

Snubber (wound)

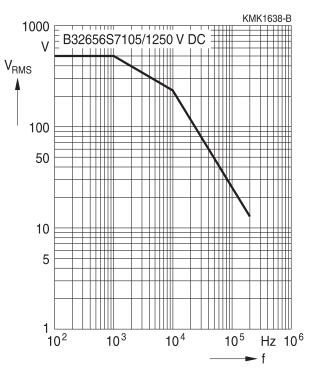
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90 \ ^{\circ}C$)

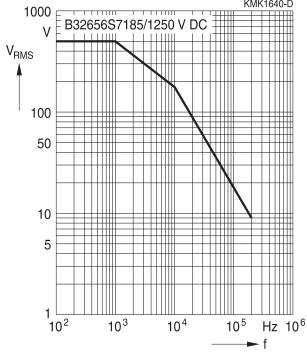
For $T_A > 90 \,^{\circ}C$, please refer to "General technical information", section 3.2.3.





1250 V DC/500 V AC









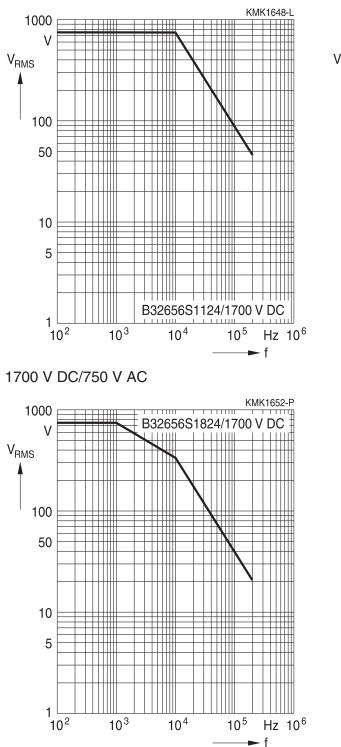
Snubber (wound)

B32656S

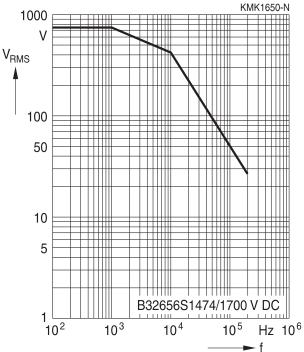
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, T_A \leq 90 °C)

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

1700 V DC/750 V AC



1700 V DC/750 V AC





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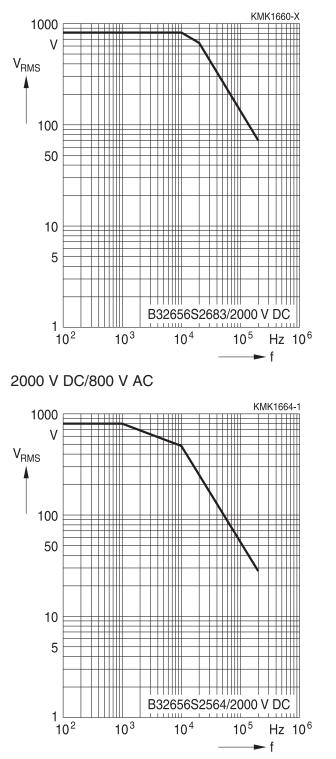
B32656S

Snubber (wound)

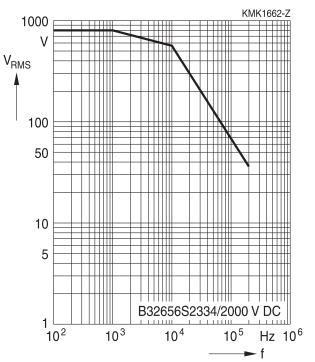
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90 \ ^{\circ}C$)

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





2000 V DC/800 V AC

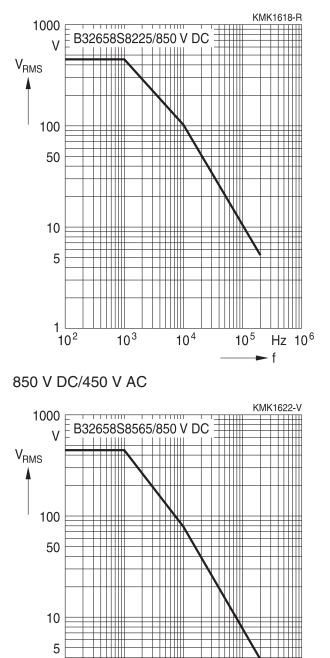




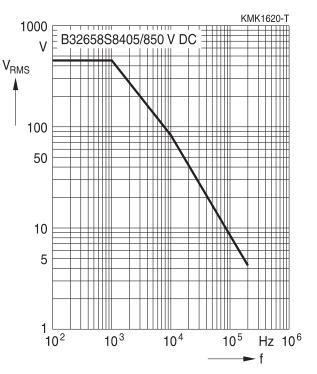
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)

For $T_A > 90 \,^{\circ}C$, please refer to "General technical information", section 3.2.3.

850 V DC/450 V AC



850 V DC/450 V AC



10³

10⁴

10⁵

- f

Hz 10⁶

1 └── 10²





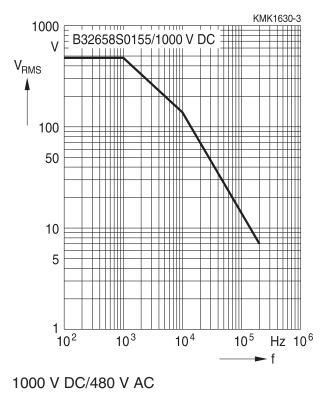
B32658S

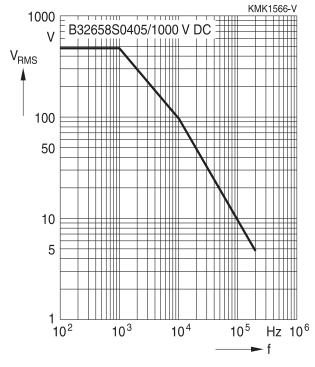
Snubber (wound)

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

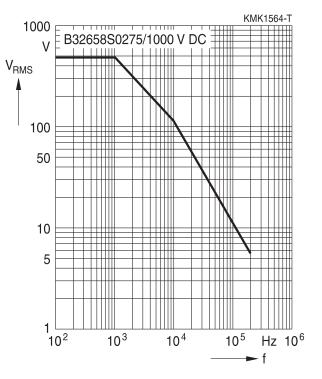
For $T_A > 90 \,^{\circ}C$, please refer to "General technical information", section 3.2.3.

1000 V DC/480 V AC





1000 V DC/480 V AC





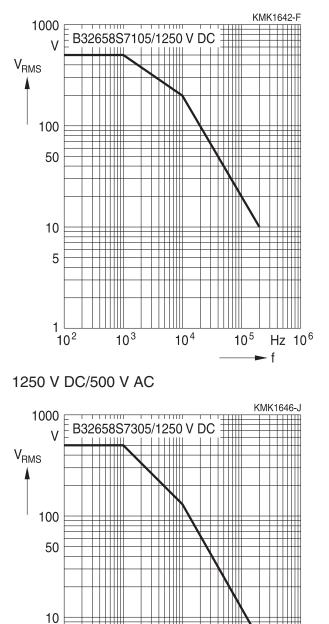


Snubber (wound)

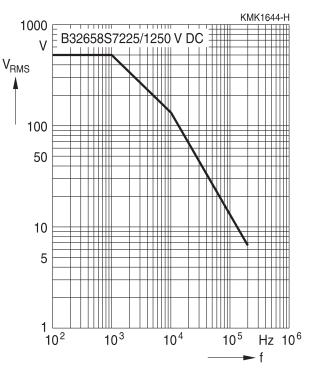
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)

For $T_A > 90 \,^{\circ}C$, please refer to "General technical information", section 3.2.3.

1250 V DC/500 V AC



1250 V DC/500 V AC



10³

10⁴

10⁵

- f

Hz 10⁶

5

1 10²





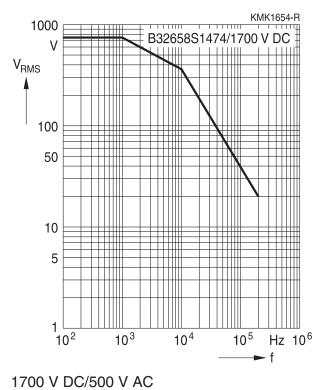
B32658S

Snubber (wound)

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

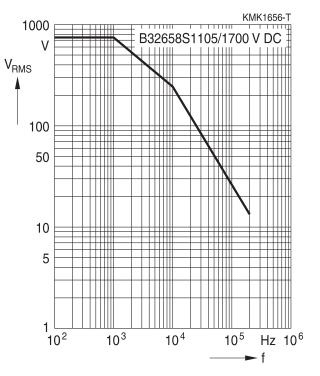
For $T_A > 90$ °C, please refer to "General technical information", section 3.2.3.

1700 V DC/500 V AC



KMK1658-V 1000 B32658S1145/1700 V DC ۷ V_{RMS} 100 50 10 5 1 10² 10³ 10⁴ 10⁵ Hz 10⁶ - f

1700 V DC/500 V AC





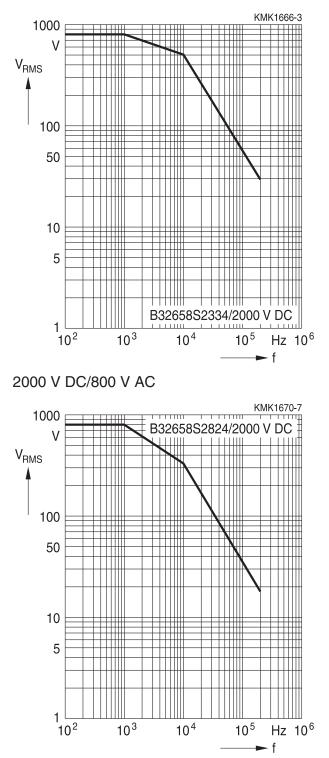


Snubber (wound)

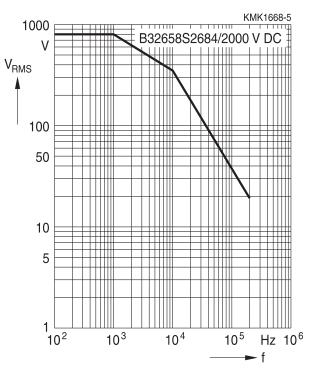
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)

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

2000 V DC/800 V AC



2000 V DC/800 V AC







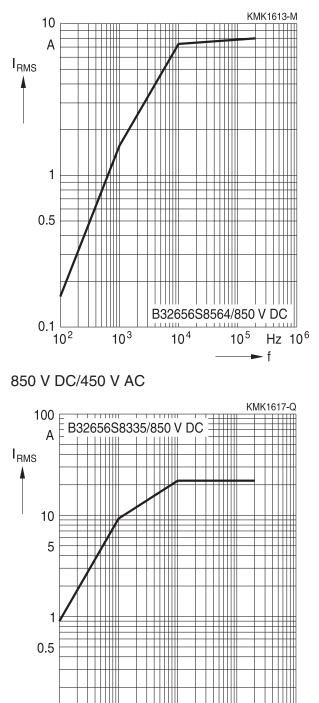
B32656S

Snubber (wound)

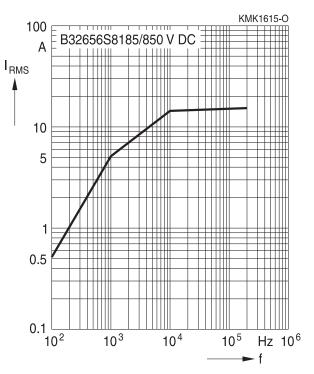
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90$ °C)

For $T_A > 90$ °C, please use derating factor F_T .





850 V DC/450 V AC



10³

10⁴

10⁵

Hz 10⁶

- f

0.1 └─ 10²

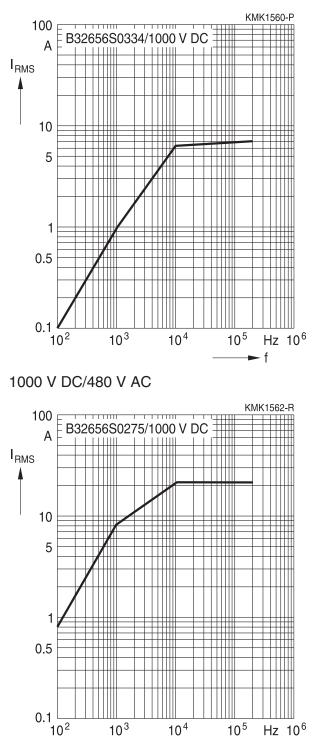




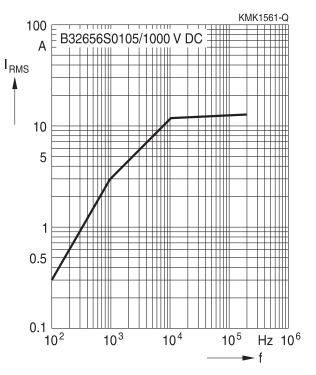
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90$ °C)

For $T_A > 90$ °C, please use derating factor F_T .

1000 V DC/480 V AC



1000 V DC/480 V AC



10³

10⁴

10⁵

Hz 10⁶

► f



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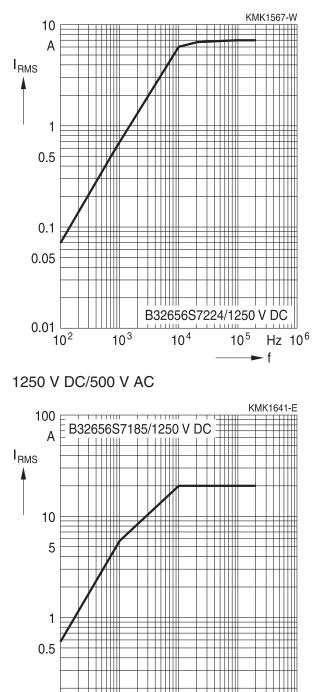
B32656S

Snubber (wound)

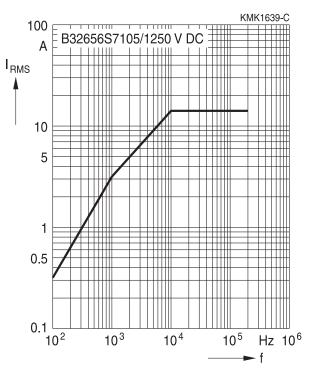
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90$ °C)

For $T_A > 90$ °C, please use derating factor F_T .

1250 V DC/500 V AC



1250 V DC/500 V AC



10³

10⁴

10⁵

Hz 10⁶

- f

0.1 └─ 10²

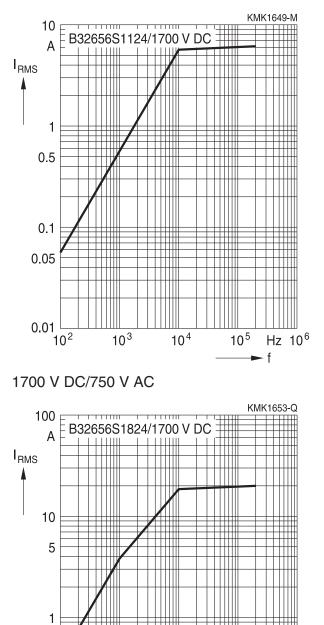




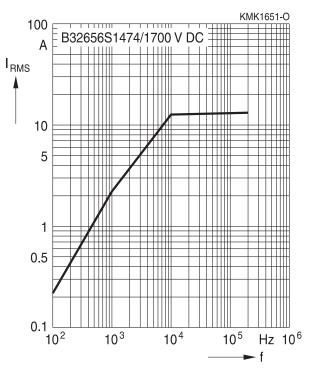
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90 \ ^{\circ}C$)

For $T_A > 90 \,^{\circ}C$, please use derating factor F_T .

1700 V DC/750 V AC



1700 V DC/750 V AC



10³

10⁴

10⁵

Hz 10⁶

- f

0.5

0.1 └─ 10²



O O MKP

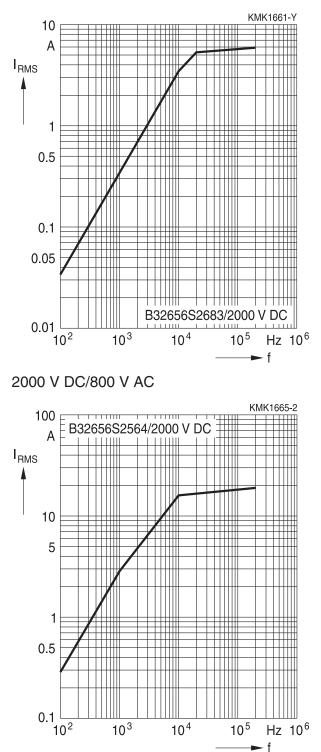
B32656S

Snubber (wound)

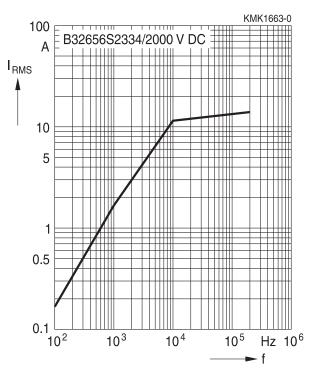
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms T_A $\leq\!90$ $^\circ\text{C}$)

For $T_A > 90$ °C, please use derating factor F_T .

2000 V DC/800 V AC



2000 V DC/800 V AC



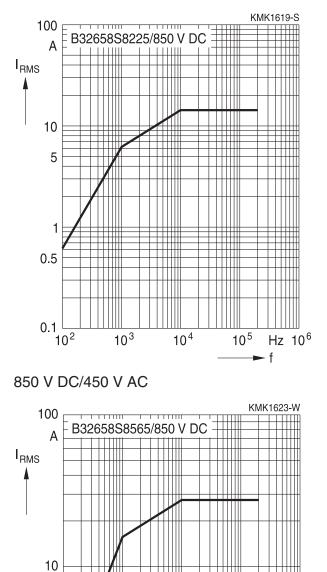




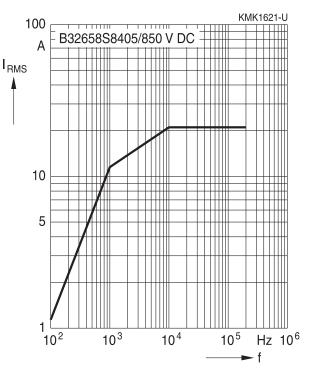
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90$ °C)

For $T_A > 90$ °C, please use derating factor F_T .





850 V DC/450 V AC



10³

10⁴

10⁵

► f

Hz 10⁶

5

1 └─ 10²



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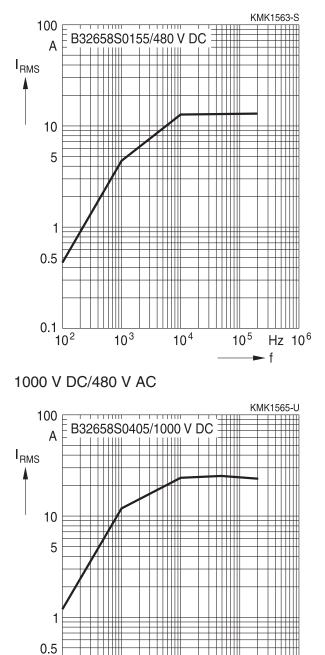
B32658S

Snubber (wound)

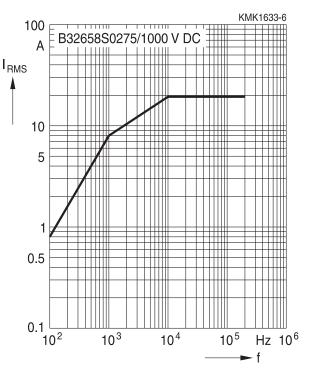
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms T_A $\leq\!90$ $^\circ\text{C}$)

For $T_A > 90$ °C, please use derating factor F_T .

1000 V DC/480 V AC



1000 V DC/480 V AC



10³

10⁴

10⁵

Hz 10⁶

- f

0.1 └─ 10²

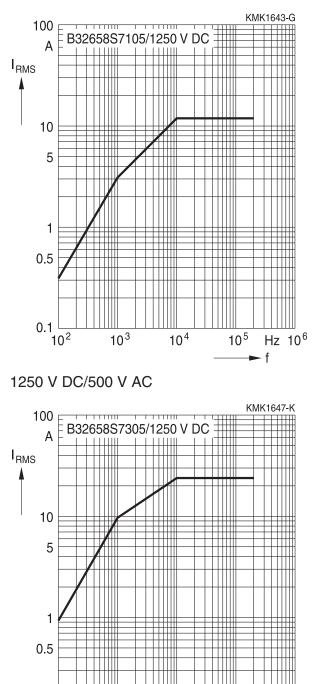




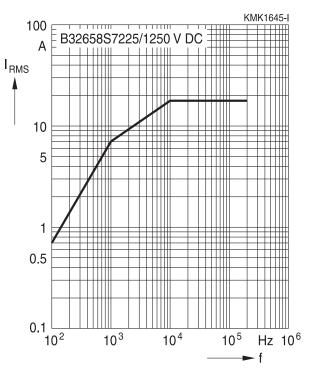
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90$ °C)

For $T_A > 90$ °C, please use derating factor F_T .

1250 V DC/500 V AC



1250 V DC/500 V AC



10³

10⁴

10⁵

Hz 10⁶

- f

0.1 └─ 10²



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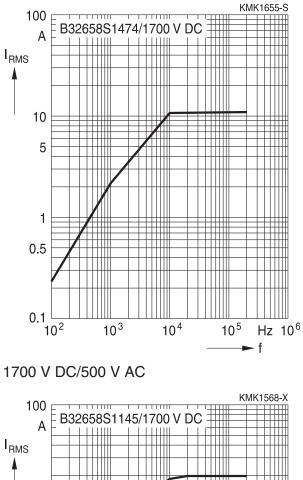
B32658S

Snubber (wound)

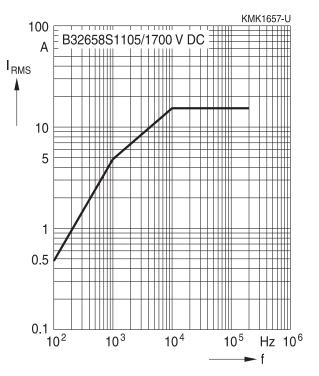
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90$ °C)

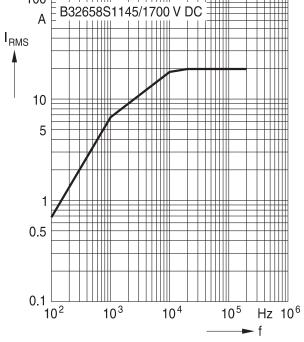
For $T_A > 90$ °C, please use derating factor F_T .

1700 V DC/500 V AC



1700 V DC/500 V AC





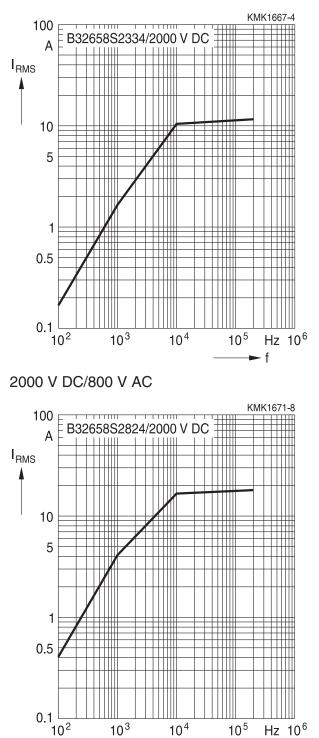




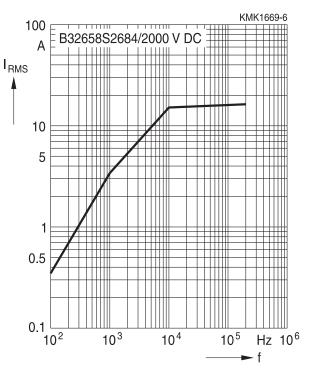
Permissible current I_{RMS} versus frequency f (for sinusoidal waveforms $T_A \leq 90$ °C)

For $T_A > 90$ °C, please use derating factor F_T .

2000 V DC/800 V AC



2000 V DC/800 V AC



- f





B32656S, B32658S Snubber (wound)

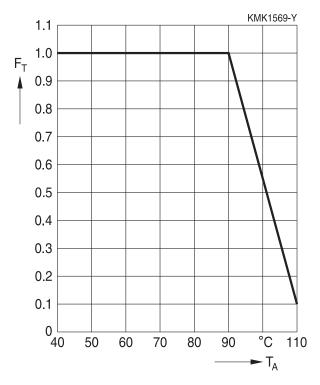
Maximum AC voltage (V_{RMS}), current (I_{RMS}) versus frequency and temperature for T_A >90 °C

The graphs described in the previous section for the permissible AC voltage (V_{RMS}) or current (I_{RMS}) versus frequency are given for a maximum ambient temperature $T_A \leq 90 \ ^{o}C$. In case of higher ambient temperatures (T_A), the self-heating (ΔT) of the component must be reduced to avoid that temperature of the component ($T_{op} = T_A + \Delta T$) reaches values above maximum operating temperature. The factor F_T shall be applied in the following way:

 $I_{\text{RMS}} (T_{\text{A}}) = I_{\text{RMS}, T_{\text{A}} \leq 90 \text{ }^{\circ}\text{C}} \cdot F_{\text{T}} (T_{\text{A}})$ $V_{\text{RMS}} (T_{\text{A}}) = V_{\text{RMS}, T_{\text{A}} \leq 90 \text{ }^{\circ}\text{C}} \cdot F_{\text{T}} (T_{\text{A}})$

And F_T is given by the following curve:

Curves characteristics (I_{RMS} derating versus temperature)



Maximum I_{RMS} current as function of the ambient temperature: I_{RMS} (T_A) = Factor × I_{RMS} (90 °C)



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Snubber (wound)

Testing and Standards

Test	Reference	Conditions of test	Performance requirements
Electrical parameters	IEC 60384-16:2005	Voltage proof, 1.6 V_R , 1 minute Insulation resistance, R_{ins} Capacitance, C Dissipation factor, tan δ	Within specified limits
Robustness of termina- tions	IEC 60068-2-21:2006	Only tests Ua1 (20N) and Ud	Capacitance and tan δ within specified limits
Rapid change of temperature	IEC 60384-16:2005	T_A = lower category temperature T_B = upper category temperature Five cycles, duration t = 30 min	$\begin{split} \Delta C/C_0 &\leq 2\% \\ \Delta \tan \delta &\leq 0.002 \\ R_{ins} &\geq 50\% \text{ of initial limit} \end{split}$
Vibration	IEC 60384-16:2005	Test F_c : vibration sinusoidal Displacement: 0.75 mm Accleration: 98 m/s ² Frequency: 10 Hz 500 Hz Test duration: 3 orthogonal axes, 2 hours each axe	No visible damage
Bump	IEC 60384-16:2005	Test Eb: Total 4000 bumps with 390 m/s ² mounted on PCB Duration: 6 ms	No visible damage $ \Delta C/C_0 \le 2\%$ $ \Delta \tan \delta \le 0.002$ $R_{ins} \ge 50\%$ of initial limit
Climatic sequence	IEC 60384-16:2005	Dry heat Tb[T _B] / 16 h Damp heat cyclic, 1 st cycle +55 °C / 24 h / 95% 100% RH Cold Ta[T _A] / 2 h Damp heat cyclic, 5 cycles +55 °C / 24 h / 95% 100% RH	No visible damage $ \Delta C/C_0 \le 3\%$ $ \Delta \tan \delta \le 0.003$ $R_{ins} \ge 50\%$ of initial limit
Damp heat, steady state	IEC 60384-16:2005	Test Ca 40 °C / 93% RH / 56 days	No visible damage $ \Delta C/C_{0 } \le 3\%$ $ \Delta \tan \delta \le 0.002$ $R_{ins} \ge 50\%$ of initial limit
Advanced biased humidity		$ \begin{array}{ c c c c c c c c } \hline 60 \ ^\circ C \ / \ 95\% \ RH \ / \ 1000 \ hours \\ with \ V_{_{R}} \ DC \\ \hline & \Delta C/C_0 \le 10\% \\ & \Delta \ tan \ \delta \le 0.002 \\ & R_{_{ins}} \ge 50\% \ of \ initial \ limit \\ \hline \end{array} $	



B32656S, B32658S Snubber (wound)

Test	Reference	Conditions of test	Performance requirements
Endurance A		85 °C / 1.25 V _R / 2000 hours	$\label{eq:linear} \begin{array}{l} \mbox{No visible damage} \\ \Delta C/C_0 \leq 3\% \\ \Delta \tan \delta \leq 0.002 \\ R_{ins} \geq 50\% \mbox{ of initial limit} \end{array}$
Endurance B		110 °C / 1.25 V _c / 2000 hours	$\label{eq:linear} \begin{array}{l} \mbox{No visible damage} \\ \Delta C/C_0 \leq 3\% \\ \Delta \mbox{ tan } \delta \leq 0.002 \\ R_{ins} \geq 50\% \mbox{ of initial limit} \end{array}$

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	



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Snubber (wound)

1.2 Resistance to soldering heat

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

Serie	s	Solder bath temperature	Soldering time
MKT	boxed (except $2.5 \times 6.5 \times 7.2$ mm)	260 ±5 °C	10 ±1 s
coated			
	uncoated (lead spacing >10 mm)		
MFP			
MKP	(lead spacing >7.5 mm)		
MKT	boxed (case $2.5 \times 6.5 \times 7.2$ mm)		5±1 s
MKP	(lead spacing ≤7.5 mm)		<4 s
MKT	uncoated (lead spacing ≤10 mm)		recommended soldering
	insulated (B32559)		profile for MKT uncoated
			(lead spacing \leq 10 mm) and
			insulated (B32559)
300	KMK1242-V		
°C	260 °C, 4 s		
T 250			
1			
200			
200			
150			
100			
50			
00			
C	0 50 100 150 200 s 25	50	
	− t		
Immersion depth		2.0 +0/-0.5 mm from cap	acitor 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	
		2% for MKT/MKP/MFP	
$\Delta C/C_0$		5% for EMI suppression capacitors	
$tan \delta$		As specified in sectional specification	

Please read *Cautions and warnings* and *Important potes* at the end of this document. Downloaded from <u>Arrow.com</u>. Page 57 of 66



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Snubber (wound)

1.3 General notes on soldering

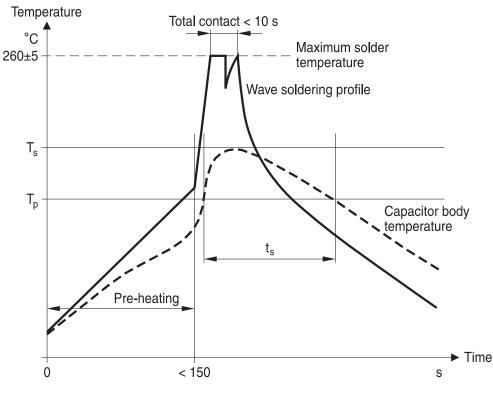
Permissible heat exposure loads on film capacitors are primarily characterized by the upper category temperature T_{max} . Long exposure to temperatures above this type-related temperature limit can lead to changes in the plastic dielectric and thus change irreversibly a capacitor's electrical characteristics. 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:

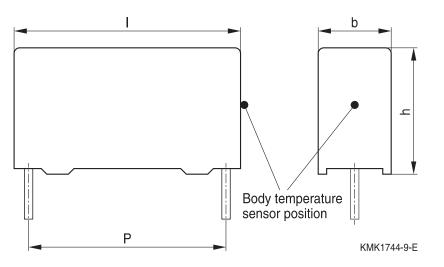


 $T_{s}: Capacitor body maximum temperature at wave soldering \\T_{p}: Capacitor body maximum temperature at pre-heating \\KMK1745-A-E$





Snubber (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: $T_s \leq 160 \text{ °C}$, $t_s \leq 45 \text{ s}$

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 ≤ 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 ≤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 EPCOS Film Capacitor Data Book in case more details are needed.



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Snubber (wound)

Cautions and warnings

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

Торіс	Safety information	Reference chapter
		"General technical
		information"
Storage	Make sure that capacitors are stored within the specified	4.5
conditions	range of time, temperature and humidity conditions.	"Storage conditions"
Flammability	Avoid external energy, such as fire or electricity (passive	5.3
	flammability), avoid overload of the capacitors (active	"Flammability"
	flammability) and consider the flammability of materials.	
Resistance to	Do not exceed the tested ability to withstand vibration.	5.2
vibration	The capacitors are tested to IEC 60068-2-6:2007.	"Resistance to
	EPCOS offers film capacitors specially designed for	vibration"
	operation under more severe vibration regimes such as	
	those found in automotive applications. Consult our	
	catalog "Film Capacitors for Automotive Electronics".	

Торіс	Safety information	Reference chapter "Mounting guidelines"
Soldering	Do not exceed the specified time or temperature limits	1 "Soldering"
	during soldering.	
Cleaning	Use only suitable solvents for cleaning capacitors.	2 "Cleaning"



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	B32656S, B32658S
	B320303, B320303
MKP	Snubber (wound)
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Торіс	Safety information	Reference chapter "Mounting guidelines"
Embedding of capacitors in	When embedding finished circuit assemblies in plastic resins, chemical and thermal influences must be taken	3 "Embedding of capacitors in finished
finished	into account.	assemblies"
assemblies	Caution: Consult us first, if you also wish to embed other uncoated component types!	

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 <u>www.epcos.com/orderingcodes</u>.



O O MKP

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Snubber (wound)

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 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 _τ	Derating factor	Deratingfaktor
i	Current (peak)	Stromspitze
I _C	Category current (max. continuous current)	Kategoriestrom (max. Dauerstrom)



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Snubber (wound)

MKP

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Symbol English German I_{RMS} (Sinusoidal) alternating current, (Sinusförmiger) Wechselstrom root-mean-square value Capacitance drift Inkonstanz der Kapazität i, Pulse characteristic Impulskennwert k_0 Series inductance Serieninduktivität Ls Failure rate Ausfallrate λ λ Konstante Ausfallrate in der Constant failure rate during useful 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 Wärmeenergie Q Heat energy Density of water vapor in air Dichte von Wasserdampf in Luft ρ Allg. Molarkonstante für Gas R Universal molar constant for gases R Ohmic resistance of discharge circuit Ohmscher Widerstand des Entladekreises R Innenwiderstand Internal resistance \mathbf{R}_{ins} Insulation resistance Isolationswiderstand Parallel resistance Parallelwiderstand R_P Series resistance Serienwiderstand Rs S severity (humidity test) Schärfegrad (Feuchtetest) Time Zeit t Т Temperature Temperatur Zeitkonstante Time constant τ $tan \delta$ **Dissipation factor** Verlustfaktor Dielektrischer Anteil des Verlustfaktors Dielectric component of dissipation tan δ_{D} factor tan δ_{P} Parallel component of dissipation factor Parallelanteil des Verlfustfaktors Serienanteil des Verlustfaktors tan δ_{S} Series component of dissipation factor Temperature of the air surrounding the Temperatur der Luft, die das Bauteil TΔ umgibt component T_{max} Obere Kategorietemperatur Upper category temperature Lower category temperature Untere Kategorietemperatur T_{min} Operating life at operating temperature Betriebszeit bei Betriebstemperatur und t_{oL} and voltage -spannung Operating temperature, $T_A + \Delta T$ Beriebstemperatur, $T_A + \Delta T$ Top T_B Rated temperature Nenntemperatur T_{ref} Reference temperature Referenztemperatur Reference service life Referenz-Lebensdauer t_{SL}



O O MKP

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Snubber (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)
V _i	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:

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