

## Film Capacitors

### Metallized Polypropylene Film Capacitors (MKP)

**Series/Type:** B32656S ... B32658S

**Date:** July 2015

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**Snubber (wound)****Typical applications**

- IGBT
- Snubbing

**Climatic**

- Max. operating temperature: 110 °C
- Climatic category (IEC 60068-1): 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

**Terminals**

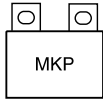
- Strap terminals, tinned copper or brass (max. torque 10 Nm)

**Marking**

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

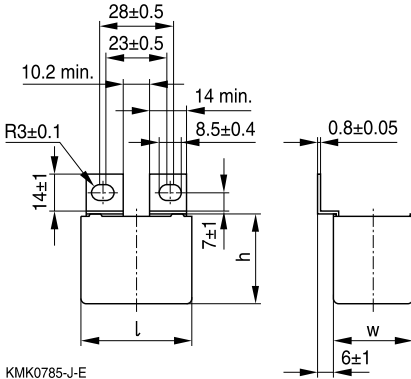
**Delivery mode**

Bulk (untaped)

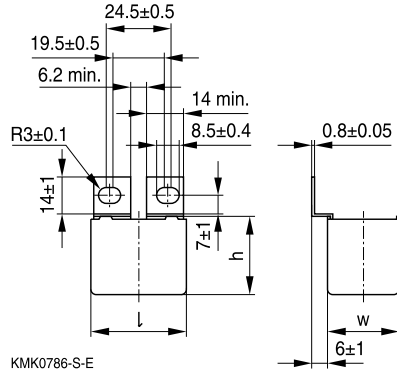


**Dimensional drawings**

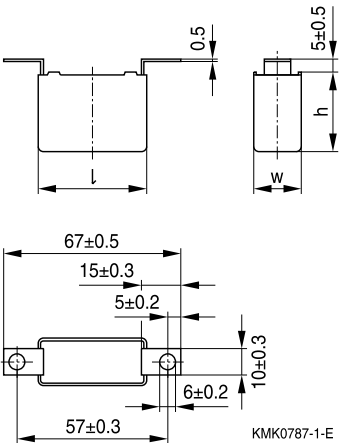
**T1 (code no. 561)**



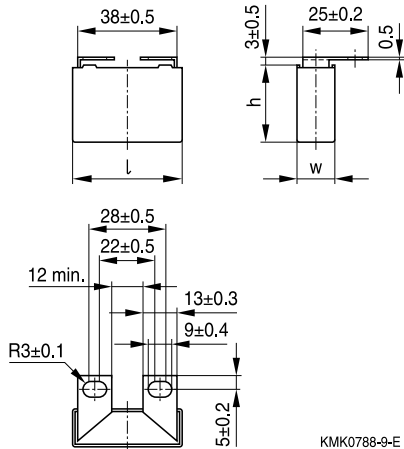
**T2 (code no. 562)**

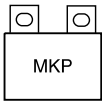


**T3 (code no. 563)**



**T4 (code no. 564)**



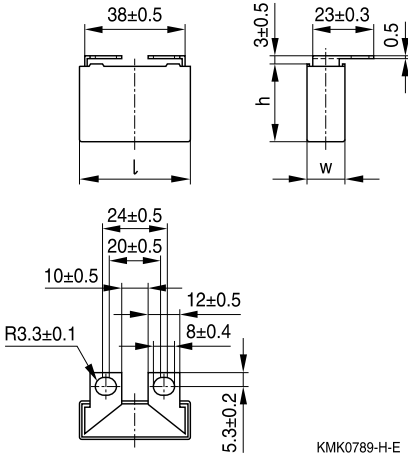


**B32656S ... B32658S**

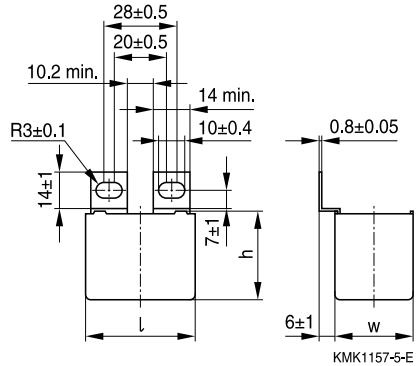
**Snubber (wound)**

**Dimensional drawings (continued)**

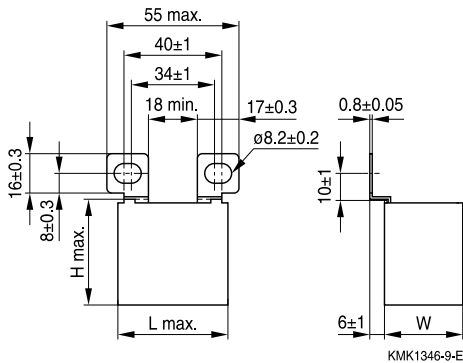
**T5 (code no. 565)**



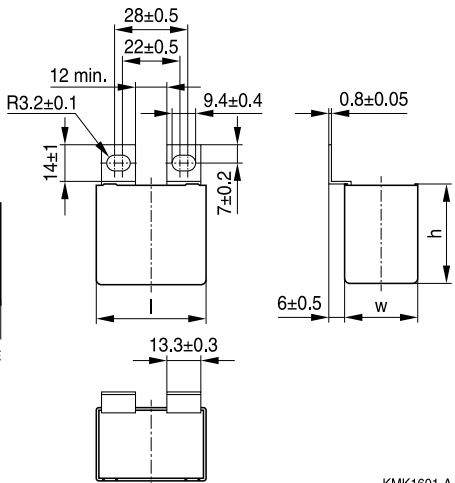
**T6 (code no. 566)**

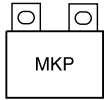


**T7 (code no. 577)**



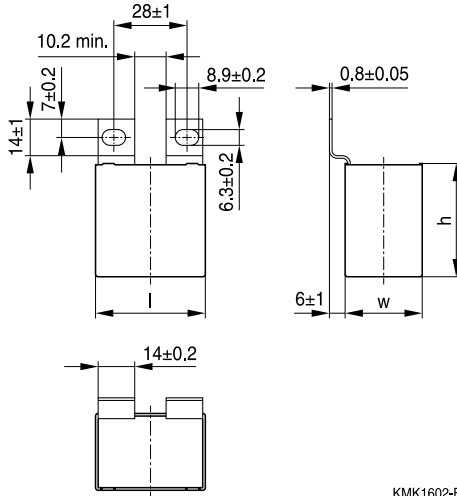
**T8 (code no. 408)**



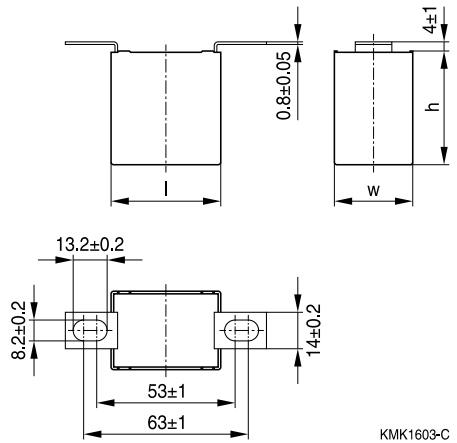


**Dimensional drawings (continued)**

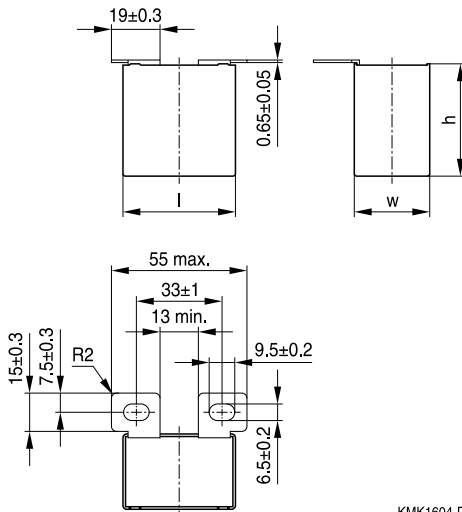
**T9 (code no. 409)**



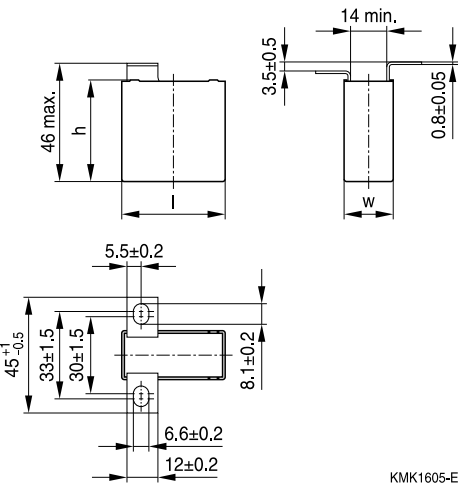
**T10 (code no. 410)**

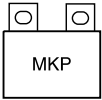


**T11 (code no. 411)**



**T12 (code no. 412)**



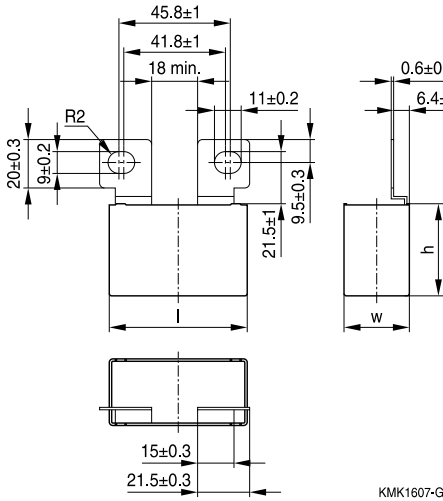


B32656S ... B32658S

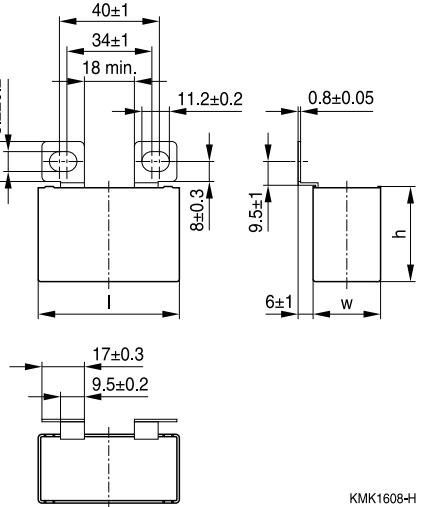
Snubber (wound)

Dimensional drawings (continued)

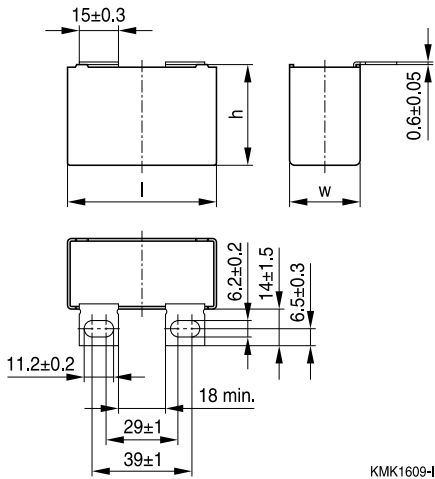
T14 (code no. 414)



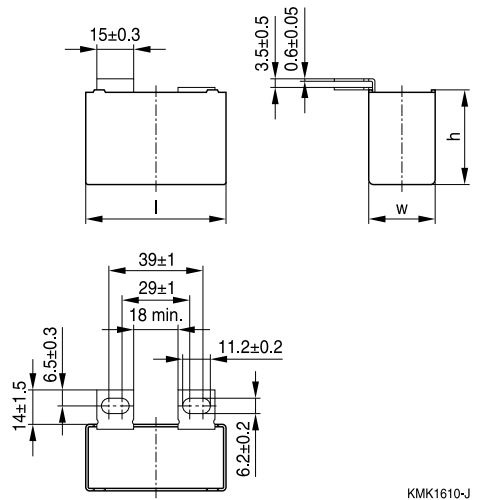
T15 (code no. 415)

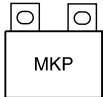


T16 (code no. 416)



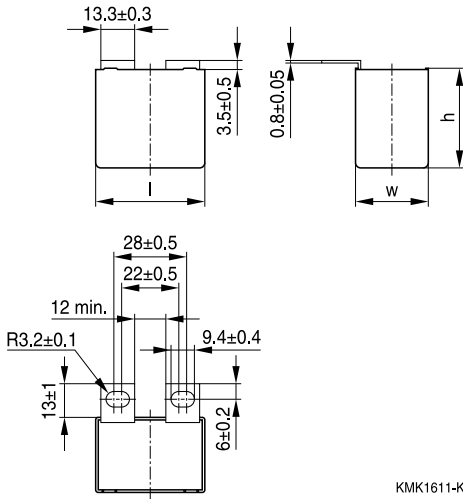
T17 (code no. 417)





Dimensional drawings (continued)

T18 (code no. 418)



KMK1611-K



**B32656S ... B32658S**

**Snubber (wound)**

**Overview of available types**

Type	B32656S				
$V_R$ (V DC)	850	1000	1250	1700	2000
$V_{RMS}$ (V AC)	450	480	500	750	800
$C_R$ (nF)					
68					
100					
120					
150					
220					
270					
330					
390					
470					
560					
680					
820					
1000					
1200					
1500					
1800					
2200					
2700					
3300					

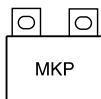


B32656S ... B32658S

Snubber (wound)



Type	B32658S				
$V_R$ (V DC)	850	1000	1250	1700	2000
$V_{RMS}$ (V AC)	450	480	500	750	800
$C_R$ (nF)					
330					
470					
680					
820					
900					
1000					
1200					
1400					
1500					
1800					
2200					
2700					
3000					
3300					
4000					
4200					
4500					
4700					
5000					
5600					



**B32656S**  
**Snubber (wound)**

**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	$ESR_{typ}$ 100 kHz m $\Omega$	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
850	450	560	14.0 × 25.0 × 42.0	8.0	9.0	B32656S8564+408	T8	288
		560	14.0 × 25.0 × 42.0	8.0	9.0	B32656S8564+418	T18	288
		560	14.0 × 25.0 × 42.0	8.0	9.0	B32656S8564+563	T3	168
		560	14.0 × 25.0 × 42.0	8.0	9.0	B32656S8564+564	T4	288
		560	14.0 × 25.0 × 42.0	8.0	9.0	B32656S8564+565	T5	288
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+408	T8	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+409	T9	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+411	T11	128
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+418	T18	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+561	T1	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+562	T2	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+563	T3	144
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+564	T4	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+565	T5	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+566	T6	192
		680	16.0 × 28.5 × 42.0	9.5	7.0	B32656S8684+577	T7	180
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+408	T8	192
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+409	T9	192
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+411	T11	128
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+418	T18	192
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+561	T1	192
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+562	T2	192
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+563	T3	144
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+564	T4	192
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+565	T5	192
		820	16.0 × 28.5 × 42.0	10.0	6.0	B32656S8824+566	T6	192
		820	16.0 × 28.5 × 42.0	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 = ±10%

J = ±5%


**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
850	450	1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+408	T8	140
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+409	T9	140
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+411	T11	112
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+418	T18	140
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+561	T1	140
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+562	T2	140
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+563	T3	120
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+564	T4	128
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+565	T5	128
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+566	T6	140
		1000	18.0 × 32.5 × 42.0	11.5	6.0	B32656S8105+577	T7	156
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+408	T8	140
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+409	T9	140
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+411	T11	112
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+418	T18	140
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+561	T1	140
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+562	T2	140
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+563	T3	120
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+564	T4	128
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+565	T5	128
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+566	T6	140
		1200	18.0 × 32.5 × 42.0	12.5	5.0	B32656S8125+577	T7	156
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+408	T8	128
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+409	T9	128
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+418	T18	128
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+561	T1	128
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+562	T2	128
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+563	T3	72
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+566	T6	128
		1500	31.0 × 26.5 × 43.6	14.0	5.0	B32656S8155+577	T7	84

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

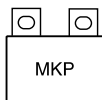
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	$ESR_{typ}$ 100 kHz m $\Omega$	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
850	450	1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+408	T8	108
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+409	T9	108
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+410	T10	80
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+411	T11	72
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+418	T18	108
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+561	T1	108
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+562	T2	108
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+563	T3	96
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+566	T6	108
		1800	28.0 × 37.0 × 42.0	15.5	4.5	B32656S8185+577	T7	96
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+408	T8	48
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+409	T9	48
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+410	T10	80
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+411	T11	64
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+418	T18	48
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+561	T1	48
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+562	T2	48
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+563	T3	96
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+566	T6	48
		2200	30.0 × 45.0 × 42.0	17.0	4.0	B32656S8225+577	T7	96
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+408	T8	48
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+409	T9	48
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+410	T10	80
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+411	T11	64
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+418	T18	48
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+561	T1	48
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+562	T2	48
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+563	T3	96
		2700	30.0 × 45.0 × 42.0	20.0	3.7	B32656S8275+566	T6	48
		2700	30.0 × 45.0 × 42.0	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.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
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	T9	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 × 48.0 × 43.0	23.0	3.3	B32656S8335+561	T1	84
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+562	T2	84
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+563	T3	64
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+566	T6	84
		3300	33.0 × 48.0 × 43.0	23.0	3.3	B32656S8335+577	T7	84
1000	480	330	14.0 × 25.0 × 42.0	7.0	13.0	B32656S0334+408	T8	288
		330	14.0 × 25.0 × 42.0	7.0	13.0	B32656S0334+418	T18	288
		330	14.0 × 25.0 × 42.0	7.0	13.0	B32656S0334+563	T3	168
		330	14.0 × 25.0 × 42.0	7.0	13.0	B32656S0334+564	T4	288
		330	14.0 × 25.0 × 42.0	7.0	13.0	B32656S0334+565	T5	288
		390	14.0 × 25.0 × 42.0	7.5	11.0	B32656S0394+408	T8	288
		390	14.0 × 25.0 × 42.0	7.5	11.0	B32656S0394+418	T18	288
		390	14.0 × 25.0 × 42.0	7.5	11.0	B32656S0394+563	T3	168
		390	14.0 × 25.0 × 42.0	7.5	11.0	B32656S0394+564	T4	288
		390	14.0 × 25.0 × 42.0	7.5	11.0	B32656S0394+565	T5	288
		470	14.0 × 25.0 × 42.0	8.0	10.0	B32656S0474+408	T8	288
		470	14.0 × 25.0 × 42.0	8.0	10.0	B32656S0474+418	T18	288
		470	14.0 × 25.0 × 42.0	8.0	10.0	B32656S0474+563	T3	168
		470	14.0 × 25.0 × 42.0	8.0	10.0	B32656S0474+564	T4	288
		470	14.0 × 25.0 × 42.0	8.0	10.0	B32656S0474+565	T5	288
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+408	T8	192
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+409	T9	192
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+411	T11	128
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+418	T18	192

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

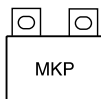
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
1000	480	560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+561	T1	192
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+562	T2	192
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+563	T3	144
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+564	T4	192
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+565	T5	192
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+566	T6	192
		560	16.0 × 28.5 × 42.0	9.0	8.0	B32656S0564+577	T7	180
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+408	T8	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+409	T9	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+411	T11	128
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+418	T18	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+561	T1	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+562	T2	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+563	T3	144
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+564	T4	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+565	T5	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+566	T6	192
		680	16.0 × 28.5 × 42.0	10.5	6.5	B32656S0684+577	T7	180
		680	19.0 × 37.5 × 42.0	18.0	3.0	B32656S0684+412	T12	264
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+408	T8	140
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+409	T9	140
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+411	T11	112
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+418	T18	140
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+561	T1	140
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+562	T2	140
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+563	T3	120
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+564	T4	128
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+565	T5	128
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+566	T6	140
		820	18.0 × 32.5 × 42.0	11.5	6.0	B32656S0824+577	T7	156
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+408	T8	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+409	T9	96
		1000	20.0 × 39.5 × 42.0	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 = ±10%

J = ±5%


**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$	$I_{RMS}$ 100 kHz	$ESR_{typ}$ 100 kHz	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF	mm	A	m $\Omega$			
1000	480	1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+411	T11	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+418	T18	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+561	T1	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+562	T2	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+563	T3	104
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+564	T4	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+565	T5	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+566	T6	96
		1000	20.0 × 39.5 × 42.0	13.0	6.0	B32656S0105+577	T7	144
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+408	T8	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+409	T9	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+410	T10	120
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+411	T11	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+418	T18	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+561	T1	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+562	T2	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+563	T3	104
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+564	T4	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+565	T5	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+566	T6	96
		1200	20.0 × 39.5 × 42.0	14.0	5.0	B32656S0125+577	T7	144
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+408	T8	48
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+409	T9	48
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+410	T10	80
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+411	T11	64
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+418	T18	48
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+561	T1	48
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+562	T2	48
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+563	T3	96
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+566	T6	48
		1500	30.0 × 45.0 × 42.0	16.5	5.0	B32656S0155+577	T7	96

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

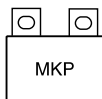
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K =  $\pm 10\%$

J =  $\pm 5\%$


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$	$I_{RMS}$ 100 kHz	$ESR_{typ}$ 100 kHz	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF	mm	A	m $\Omega$			
1000	480	1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+408	T8	48
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+409	T9	48
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+410	T10	48
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+411	T11	64
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+418	T18	48
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+561	T1	48
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+562	T2	48
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+563	T3	96
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+566	T6	48
		1800	30.0 × 45.0 × 42.0	17.0	4.5	B32656S0185+577	T7	96
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+408	T8	48
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+409	T9	48
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+410	T10	80
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+411	T11	64
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+418	T18	48
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+561	T1	48
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+562	T2	48
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+563	T3	96
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+566	T6	48
		2200	30.0 × 45.0 × 42.0	19.0	4.0	B32656S0225+577	T7	96
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+408	T8	84
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+409	T9	84
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+410	T10	60
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+411	T11	56
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+418	T18	84
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+561	T1	84
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+562	T2	84
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+563	T3	64
		2700	33.0 × 48.0 × 43.0	22.0	3.3	B32656S0275+566	T6	84
		2700	33.0 × 48.0 × 43.0	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.

**Composition of ordering code**

+ = Capacitance tolerance code:

K =  $\pm 10\%$

J =  $\pm 5\%$




**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
1250	500	220	14.0 × 25.0 × 42.0	7.0	11.5	B32656S7224+408	T8	288
		220	14.0 × 25.0 × 42.0	7.0	11.5	B32656S7224+418	T18	288
		220	14.0 × 25.0 × 42.0	7.0	11.5	B32656S7224+563	T3	168
		220	14.0 × 25.0 × 42.0	7.0	11.5	B32656S7224+564	T4	288
		220	14.0 × 25.0 × 42.0	7.0	11.5	B32656S7224+565	T5	288
		270	14.0 × 25.0 × 42.0	8.0	10.0	B32656S7274+408	T8	288
		270	14.0 × 25.0 × 42.0	8.0	10.0	B32656S7274+418	T18	288
		270	14.0 × 25.0 × 42.0	8.0	10.0	B32656S7274+563	T3	168
		270	14.0 × 25.0 × 42.0	8.0	10.0	B32656S7274+564	T4	288
		270	14.0 × 25.0 × 42.0	8.0	10.0	B32656S7274+565	T5	288
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+408	T8	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+409	T9	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+411	T11	128
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+418	T18	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+561	T1	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+562	T2	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+563	T3	144
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+564	T4	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+565	T5	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+566	T6	192
		330	16.0 × 28.5 × 42.0	8.5	9.5	B32656S7334+577	T7	180
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+408	T8	140
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+409	T9	140
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+411	T11	112
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+418	T18	140
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+561	T1	140
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+562	T2	140
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+563	T3	120
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+564	T4	128
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+565	T5	128
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+566	T6	140
		390	18.0 × 32.5 × 42.0	9.0	9.0	B32656S7394+577	T7	156

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

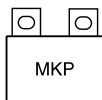
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ		
V DC	V AC	nF								
1250	500	470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+408	T8	140		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+409	T9	140		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+411	T11	112		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+418	T18	140		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+561	T1	140		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+562	T2	140		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+563	T3	120		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+564	T4	128		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+565	T5	128		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+566	T6	140		
		470	18.0 × 32.5 × 42.0	9.0	8.5	B32656S7474+577	T7	156		
		470	19.0 × 37.5 × 42.0	17.0	4.0	B32656S7474+412	T12	264		
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+408	T8	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+409	T9	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+410	T10	120
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+411	T11	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+418	T18	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+561	T1	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+562	T2	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+563	T3	104
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+564	T4	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+565	T5	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+566	T6	96
				560	20.0 × 39.5 × 42.0	11.0	7.0	B32656S7564+577	T7	144
				680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+408	T8	96
				680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+409	T9	96
				680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+410	T10	120
				680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+411	T11	96
				680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+418	T18	96
				680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+561	T1	96
				680	20.0 × 39.5 × 42.0	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.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$	$I_{RMS}$ 100 kHz	$ESR_{typ}$ 100 kHz	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF	mm	A	m $\Omega$			
1250	500	680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+563	T3	104
		680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+564	T4	96
		680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+565	T5	96
		680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+566	T6	96
		680	20.0 × 39.5 × 42.0	13.0	6.0	B32656S7684+577	T7	144
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+408	T8	108
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+409	T9	108
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+410	T10	80
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+411	T11	72
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+418	T18	108
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+561	T1	108
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+562	T2	108
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+563	T3	96
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+566	T6	108
		820	28.0 × 37.0 × 42.0	14.0	5.5	B32656S7824+577	T7	96
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+408	T8	108
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+409	T9	108
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+410	T10	80
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+411	T11	72
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+418	T18	108
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+561	T1	108
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+562	T2	108
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+563	T3	96
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+566	T6	108
		1000	28.0 × 37.0 × 42.0	15.5	5.0	B32656S7105+577	T7	96
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+408	T8	48
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+409	T9	48
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+410	T10	80
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+411	T11	64
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+418	T18	48

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

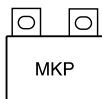
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K =  $\pm 10\%$

J =  $\pm 5\%$


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$	$I_{RMS}$ 100 kHz	$ESR_{typ}$ 100 kHz	Ordering code (composition see below)	Ter- minal	pcs./ MOQ		
V DC	V AC	nF	mm	A	$m\Omega$					
1250	500	1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+561	T1	48		
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+562	T2	48		
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+563	T3	96		
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+566	T6	48		
		1200	30.0 × 45.0 × 42.0	17.0	4.5	B32656S7125+577	T7	96		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+408	T8	48		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+409	T9	48		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+410	T10	80		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+411	T11	64		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+418	T18	48		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+561	T1	48		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+562	T2	48		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+563	T3	96		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+566	T6	48		
		1500	30.0 × 45.0 × 42.0	19.0	4.0	B32656S7155+577	T7	96		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+408	T8	84		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+409	T9	84		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+410	T10	60		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+411	T11	56		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+418	T18	84		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+561	T1	84		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+562	T2	84		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+563	T3	64		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+566	T6	84		
		1800	33.0 × 48.0 × 43.0	22.0	3.5	B32656S7185+577	T7	84		
		1700	750	120	14.0 × 25.0 × 42.0	6.5	14.0	B32656S1124+408	T8	288
				120	14.0 × 25.0 × 42.0	6.5	14.0	B32656S1124+418	T18	288
				120	14.0 × 25.0 × 42.0	6.5	14.0	B32656S1124+563	T3	168
120	14.0 × 25.0 × 42.0			6.5	14.0	B32656S1124+564	T4	288		
120	14.0 × 25.0 × 42.0			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.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%

**B32656S**
**Snubber (wound)**

  
MKP

**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
1700	750	150	14.0 × 25.0 × 42.0	7.0	13.0	B32656S1154+408	T8	288
		150	14.0 × 25.0 × 42.0	7.0	13.0	B32656S1154+418	T18	288
		150	14.0 × 25.0 × 42.0	7.0	13.0	B32656S1154+563	T3	168
		150	14.0 × 25.0 × 42.0	7.0	13.0	B32656S1154+564	T4	288
		150	14.0 × 25.0 × 42.0	7.0	13.0	B32656S1154+565	T5	288
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+408	T8	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+409	T9	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+411	T11	128
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+418	T18	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+561	T1	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+562	T2	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+563	T3	144
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+564	T4	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+565	T5	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+566	T6	192
		220	16.0 × 28.5 × 42.0	8.5	10.5	B32656S1224+577	T7	180
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+408	T8	140
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+409	T9	140
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+411	T11	112
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+418	T18	140
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+561	T1	140
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+562	T2	140
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+563	T3	120
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+564	T4	128
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+565	T5	128
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+566	T6	140
		270	18.0 × 32.5 × 42.0	9.5	9.0	B32656S1274+577	T7	156

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

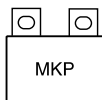
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
1700	750	330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+408	T8	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+409	T9	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+410	T10	120
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+411	T11	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+418	T18	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+561	T1	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+562	T2	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+563	T3	104
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+564	T4	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+565	T5	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+566	T6	96
		330	20.0 × 39.5 × 42.0	12.0	8.0	B32656S1334+577	T7	144
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+408	T8	108
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+409	T9	108
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+410	T10	80
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+411	T11	72
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+418	T18	108
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+561	T1	108
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+562	T2	108
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+563	T3	96
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+566	T6	108
		390	28.0 × 37.0 × 42.0	13.5	7.0	B32656S1394+577	T7	96
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+408	T8	108
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+409	T9	108
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+410	T10	72
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+411	T11	108
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+418	T18	108
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+561	T1	108
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+562	T2	108
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+563	T3	96
		470	28.0 × 37.0 × 42.0	14.5	6.0	B32656S1474+566	T6	108
		470	28.0 × 37.0 × 42.0	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 = ±5%

B32656S

Snubber (wound)



**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
1700	750	560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+408	T8	48
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+409	T9	48
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+410	T10	80
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+411	T11	64
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+418	T18	48
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+561	T1	48
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+562	T2	48
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+563	T3	96
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+566	T6	48
		560	30.0 × 45.0 × 42.0	16.5	5.5	B32656S1564+577	T7	96
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+408	T8	48
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+409	T9	48
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+410	T10	80
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+411	T11	64
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+418	T18	48
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+561	T1	48
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+562	T2	48
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+563	T3	96
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+566	T6	48
		680	30.0 × 45.0 × 42.0	18.0	5.0	B32656S1684+577	T7	96
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+408	T8	84
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+409	T9	84
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+410	T10	60
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+411	T11	56
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+418	T18	84
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+561	T1	84
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+562	T2	84
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+563	T3	64
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+566	T6	84
		820	33.0 × 48.0 × 43.0	20.0	4.0	B32656S1824+577	T7	84

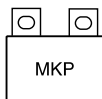
MOQ = Minimum Order Quantity, consisting of 4 packing units.  
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
2000	800	68	14.0 × 25.0 × 42.0	6.0	17.0	B32656S2683+408	T8	288
		68	14.0 × 25.0 × 42.0	6.0	17.0	B32656S2683+418	T18	288
		68	14.0 × 25.0 × 42.0	6.0	17.0	B32656S2683+563	T3	168
		68	14.0 × 25.0 × 42.0	6.0	17.0	B32656S2683+564	T4	288
		68	14.0 × 25.0 × 42.0	6.0	17.0	B32656S2683+565	T5	288
		100	14.0 × 25.0 × 42.0	6.5	15.0	B32656S2104+408	T8	288
		100	14.0 × 25.0 × 42.0	6.5	15.0	B32656S2104+418	T18	288
		100	14.0 × 25.0 × 42.0	6.5	15.0	B32656S2104+563	T3	168
		100	14.0 × 25.0 × 42.0	6.5	15.0	B32656S2104+564	T4	288
		100	14.0 × 25.0 × 42.0	6.5	15.0	B32656S2104+565	T5	288
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+408	T8	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+409	T9	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+411	T11	128
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+418	T18	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+561	T1	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+562	T2	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+563	T3	144
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+564	T4	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+565	T5	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+566	T6	192
		120	16.0 × 28.5 × 42.0	7.0	14.0	B32656S2124+577	T7	180
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+408	T8	140
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+409	T9	140
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+411	T11	112
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+418	T18	140
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+561	T1	140
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+562	T2	140
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+563	T3	120
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+564	T4	128
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+565	T5	128
		150	18.0 × 32.5 × 42.0	8.0	13.0	B32656S2154+566	T6	140
		150	18.0 × 32.5 × 42.0	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 = ±5%



**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
2000	800	220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+408	T8	96
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+409	T9	96
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+410	T10	120
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+411	T11	96
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+418	T18	96
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+561	T1	96
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+562	T2	96
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+563	T3	104
		220	20.0 × 39.5 × 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 × 39.5 × 42.0	11.0	9.0	B32656S2224+566	T6	96
		220	20.0 × 39.5 × 42.0	11.0	9.0	B32656S2224+577	T7	144
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+408	T8	108
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+409	T9	108
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+410	T10	80
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+411	T11	72
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+418	T18	108
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+561	T1	108
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+562	T2	108
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+563	T3	96
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+566	T6	108
		270	28.0 × 37.0 × 42.0	12.5	8.0	B32656S2274+577	T7	96
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+408	T8	108
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+409	T9	108
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+410	T10	80
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+411	T11	72
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+418	T18	108
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+561	T1	108
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+562	T2	108
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+563	T3	96
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+566	T6	108
		330	28.0 × 37.0 × 42.0	14.0	6.5	B32656S2334+577	T7	96

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

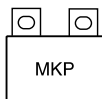
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**B32656S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	$ESR_{typ}$ 100 kHz m $\Omega$	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
2000	800	390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+408	T8	48
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+409	T9	48
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+410	T10	80
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+411	T11	64
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+418	T18	48
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+561	T1	48
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+562	T2	48
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+563	T3	96
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+566	T6	48
		390	30.0 × 45.0 × 42.0	15.0	6.5	B32656S2394+577	T7	96
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+408	T8	48
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+409	T9	48
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+410	T10	80
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+411	T11	64
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+418	T18	48
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+561	T1	48
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+562	T2	48
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+563	T3	96
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+566	T6	48
		470	30.0 × 45.0 × 42.0	17.0	5.5	B32656S2474+577	T7	96
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+408	T8	84
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+409	T9	84
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+410	T10	60
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+411	T11	56
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+418	T18	84
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+561	T1	84
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+562	T2	84
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+563	T3	64
		560	33.0 × 48.0 × 43.0	19.0	4.5	B32656S2564+566	T6	84
		560	33.0 × 48.0 × 43.0	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.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%

**B32658S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	$ESR_{typ}$ 100 kHz m $\Omega$	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
850	450	1500	22.5 × 33.0 × 57.5	12.0	7.0	B32658S8155+414	T14	88
		1500	22.5 × 33.0 × 57.5	12.0	7.0	B32658S8155+416	T16	88
		1800	22.5 × 33.0 × 57.5	13.0	6.5	B32658S8185+414	T14	88
		1800	22.5 × 33.0 × 57.5	13.0	6.5	B32658S8185+416	T16	88
		2200	22.5 × 33.0 × 57.5	14.5	5.5	B32658S8225+414	T14	88
		2200	22.5 × 33.0 × 57.5	14.5	5.5	B32658S8225+416	T16	88
		2700	27.0 × 39.5 × 57.5	18.0	5.0	B32658S8275+414	T14	72
		2700	27.0 × 39.5 × 57.5	18.0	5.0	B32658S8275+415	T15	72
		2700	27.0 × 39.5 × 57.5	18.0	5.0	B32658S8275+416	T16	72
		2700	27.0 × 39.5 × 57.5	18.0	5.0	B32658S8275+417	T17	72
		3000	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8305+414	T14	72
		3000	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8305+415	T15	72
		3000	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8305+416	T16	72
		3000	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8305+417	T17	72
		3300	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8335K414	T14	72
		3300	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8335K415	T15	72
		3300	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8335K416	T16	72
		3300	27.0 × 39.5 × 57.5	19.0	4.5	B32658S8335K417	T17	72
		4000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S8405+414	T14	64
		4000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S8405+415	T15	64
		4000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S8405+416	T16	64
		4000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S8405+417	T17	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+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
		4700	35.0 × 50.0 × 57.5	23.0	3.5	B32658S8475+416	T16	56
		4700	35.0 × 50.0 × 57.5	23.0	3.5	B32658S8475+417	T17	56

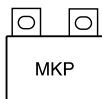
MOQ = Minimum Order Quantity, consisting of 4 packing units.  
Further E series and intermediate capacitance values on request.

**Composition of ordering code**

+ = Capacitance tolerance code:

K = ±10%

J = ±5%


**B32658S**
**Snubber (wound)**
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1 \text{ kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	$ESR_{typ}$ 100 kHz m $\Omega$	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
850	450	5000	35.0 × 50.0 × 57.5	24.0	3.2	B32658S8505+414	T14	56
		5000	35.0 × 50.0 × 57.5	24.0	3.2	B32658S8505+415	T15	56
		5000	35.0 × 50.0 × 57.5	24.0	3.2	B32658S8505+416	T16	56
		5000	35.0 × 50.0 × 57.5	24.0	3.2	B32658S8505+417	T17	56
		5600	35.0 × 50.0 × 57.5	27.0	2.8	B32658S8565+414	T14	56
		5600	35.0 × 50.0 × 57.5	27.0	2.8	B32658S8565+415	T15	56
		5600	35.0 × 50.0 × 57.5	27.0	2.8	B32658S8565+416	T16	56
		5600	35.0 × 50.0 × 57.5	27.0	2.8	B32658S8565+417	T17	56
1000	480	1000	22.5 × 33.0 × 57.5	11.0	8.0	B32658S0105+414	T14	88
		1000	22.5 × 33.0 × 57.5	11.0	8.0	B32658S0105+416	T16	88
		1500	22.5 × 33.0 × 57.5	13.5	6.5	B32658S0155+414	T14	88
		1500	22.5 × 33.0 × 57.5	13.5	6.5	B32658S0155+416	T16	88
		1800	27.0 × 39.5 × 57.5	15.5	6.0	B32658S0185+414	T14	72
		1800	27.0 × 39.5 × 57.5	15.5	6.0	B32658S0185+415	T15	72
		1800	27.0 × 39.5 × 57.5	15.5	6.0	B32658S0185+416	T16	72
		1800	27.0 × 39.5 × 57.5	15.5	6.0	B32658S0185+417	T17	72
		2200	27.0 × 39.5 × 57.5	17.0	5.0	B32658S0225+414	T14	72
		2200	27.0 × 39.5 × 57.5	17.0	5.0	B32658S0225+415	T15	72
		2200	27.0 × 39.5 × 57.5	17.0	5.0	B32658S0225+416	T16	72
		2200	27.0 × 39.5 × 57.5	17.0	5.0	B32658S0225+417	T17	72
		2700	30.0 × 45.0 × 57.5	20.0	4.5	B32658S0275+414	T14	64
		2700	30.0 × 45.0 × 57.5	20.0	4.5	B32658S0275+415	T15	64
		2700	30.0 × 45.0 × 57.5	20.0	4.5	B32658S0275+416	T16	64
		2700	30.0 × 45.0 × 57.5	20.0	4.5	B32658S0275+417	T17	64
		3000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S0305+414	T14	64
		3000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S0305+415	T15	64
		3000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S0305+416	T16	64
		3000	30.0 × 45.0 × 57.5	21.0	4.0	B32658S0305+417	T17	64
		3300	35.0 × 50.0 × 57.5	22.0	4.0	B32658S0335+414	T14	56
		3300	35.0 × 50.0 × 57.5	22.0	4.0	B32658S0335+415	T15	56
		3300	35.0 × 50.0 × 57.5	22.0	4.0	B32658S0335+416	T16	56
		3300	35.0 × 50.0 × 57.5	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 = ±5%

B32658S

Snubber (wound)



### Electrical specifications, ordering codes and packing units

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	ESR <sub>typ</sub> 100 kHz mΩ	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
1000	480	4000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0405+414	T14	56
		4000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0405+415	T15	56
		4000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0405+416	T16	56
		4000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0405+417	T17	56
		4200	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0425+414	T14	56
		4200	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0425+415	T15	56
		4200	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0425+416	T16	56
		4200	35.0 × 50.0 × 57.5	24.0	3.5	B32658S0425+417	T17	56
1250	500	820	22.5 × 33.0 × 57.5	11.5	7.5	B32658S7824+414	T14	88
		820	22.5 × 33.0 × 57.5	11.5	7.5	B32658S7824+416	T16	88
		1000	22.5 × 33.0 × 57.5	12.5	7.0	B32658S7105+414	T14	88
		1000	22.5 × 33.0 × 57.5	12.5	7.0	B32658S7105+416	T16	88
		1200	27.0 × 39.5 × 57.5	14.5	7.0	B32658S7125+414	T14	72
		1200	27.0 × 39.5 × 57.5	14.5	7.0	B32658S7125+415	T15	72
		1200	27.0 × 39.5 × 57.5	14.5	7.0	B32658S7125+416	T16	72
		1200	27.0 × 39.5 × 57.5	14.5	7.0	B32658S7125+417	T17	72
		1500	27.0 × 39.5 × 57.5	15.0	6.5	B32658S7155+414	T14	72
		1500	27.0 × 39.5 × 57.5	15.0	6.5	B32658S7155+415	T15	72
		1500	27.0 × 39.5 × 57.5	15.0	6.5	B32658S7155+416	T16	72
		1500	27.0 × 39.5 × 57.5	15.0	6.5	B32658S7155+417	T17	72
		1800	27.0 × 39.5 × 57.5	16.5	5.5	B32658S7185+414	T14	72
		1800	27.0 × 39.5 × 57.5	16.5	5.5	B32658S7185+415	T15	72
		1800	27.0 × 39.5 × 57.5	16.5	5.5	B32658S7185+416	T16	72
		1800	27.0 × 39.5 × 57.5	16.5	5.5	B32658S7185+417	T17	72
		2200	30.0 × 45.0 × 57.5	19.0	4.7	B32658S7225+414	T14	64
		2200	30.0 × 45.0 × 57.5	19.0	4.7	B32658S7225+415	T15	64
		2200	30.0 × 45.0 × 57.5	19.0	4.7	B32658S7225+416	T16	64
		2200	30.0 × 45.0 × 57.5	19.0	4.7	B32658S7225+417	T17	64
		2700	35.0 × 50.0 × 57.5	22.0	4.0	B32658S7275+414	T14	56
		2700	35.0 × 50.0 × 57.5	22.0	4.0	B32658S7275+415	T15	56
		2700	35.0 × 50.0 × 57.5	22.0	4.0	B32658S7275+416	T16	56
		2700	35.0 × 50.0 × 57.5	22.0	4.0	B32658S7275+417	T17	56

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

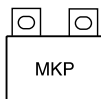
Further E series and intermediate capacitance values on request.

#### Composition of ordering code

+ = Capacitance tolerance code:

K = ±10%

J = ±5%



**B32658S**  
**Snubber (wound)**

**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	$ESR_{typ}$ 100 kHz m $\Omega$	Ordering code (composition see below)	Ter- minal	pcs./ MOQ		
V DC	V AC	nF								
1250	500	3000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S7305+414	T14	56		
		3000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S7305+415	T15	56		
		3000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S7305+416	T16	56		
		3000	35.0 × 50.0 × 57.5	24.0	3.5	B32658S7305+417	T17	56		
1700	750	470	22.5 × 33.0 × 57.5	11.5	9.0	B32658S1474+414	T14	88		
		470	22.5 × 33.0 × 57.5	11.5	9.0	B32658S1474+416	T16	88		
		680	27.0 × 39.5 × 57.5	14.5	7.5	B32658S1684+414	T14	72		
		680	27.0 × 39.5 × 57.5	14.5	7.5	B32658S1684+415	T15	72		
		680	27.0 × 39.5 × 57.5	14.5	7.5	B32658S1684+416	T16	72		
		680	27.0 × 39.5 × 57.5	14.5	7.5	B32658S1684+417	T17	72		
		1000	30.0 × 45.0 × 57.5	16.5	6.7	B32658S1105+414	T14	64		
		1000	30.0 × 45.0 × 57.5	16.5	6.7	B32658S1105+415	T15	64		
		1000	30.0 × 45.0 × 57.5	16.5	6.7	B32658S1105+416	T16	64		
		1000	30.0 × 45.0 × 57.5	16.5	6.7	B32658S1105+417	T17	64		
		1200	35.0 × 50.0 × 57.5	18.5	6.2	B32658S1125+414	T14	56		
		1200	35.0 × 50.0 × 57.5	18.5	6.2	B32658S1125+415	T15	56		
		1200	35.0 × 50.0 × 57.5	18.5	6.2	B32658S1125+416	T16	56		
		1200	35.0 × 50.0 × 57.5	18.5	6.2	B32658S1125+417	T17	56		
		1400	35.0 × 50.0 × 57.5	20.0	5.5	B32658S1145+414	T14	56		
		1400	35.0 × 50.0 × 57.5	20.0	5.5	B32658S1145+415	T15	56		
		1400	35.0 × 50.0 × 57.5	20.0	5.5	B32658S1145+416	T16	56		
		1400	35.0 × 50.0 × 57.5	20.0	5.5	B32658S1145+417	T17	56		
		2000	800	330	22.5 × 33.0 × 57.5	11.5	9.0	B32658S2334+414	T14	88
				330	22.5 × 33.0 × 57.5	11.5	9.0	B32658S2334+416	T16	88
470	27.0 × 39.5 × 57.5			14.0	8.0	B32658S2474+414	T14	72		
470	27.0 × 39.5 × 57.5			14.0	8.0	B32658S2474+415	T15	72		
470	27.0 × 39.5 × 57.5			14.0	8.0	B32658S2474+416	T16	72		
470	27.0 × 39.5 × 57.5			14.0	8.0	B32658S2474+417	T17	72		
680	30.0 × 45.0 × 57.5			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 = ±5%



**B32658S**  
**Snubber (wound)**

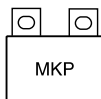
**Electrical specifications, ordering codes and packing units**

$V_R$	$V_{RMS}$ $f \leq 1\text{kHz}$	$C_R$	Max. dimensions $w \times h \times l$ mm	$I_{RMS}$ 100 kHz A	$ESR_{typ}$ 100 kHz $m\Omega$	Ordering code (composition see below)	Ter- minal	pcs./ MOQ
V DC	V AC	nF						
2000	800	680	30.0 × 45.0 × 57.5	16.5	7.0	B32658S2684+415	T15	64
		680	30.0 × 45.0 × 57.5	16.5	7.0	B32658S2684+416	T16	64
		680	30.0 × 45.0 × 57.5	16.5	7.0	B32658S2684+417	T17	64
	820	820	35.0 × 50.0 × 57.5	18.0	6.5	B32658S2824+414	T14	56
		820	35.0 × 50.0 × 57.5	18.0	6.5	B32658S2824+415	T15	56
		820	35.0 × 50.0 × 57.5	18.0	6.5	B32658S2824+416	T16	56
		820	35.0 × 50.0 × 57.5	18.0	6.5	B32658S2824+417	T17	56
		900	35.0 × 50.0 × 57.5	19.0	6.0	B32658S2904+414	T14	56
		900	35.0 × 50.0 × 57.5	19.0	6.0	B32658S2904+415	T15	56
	900	900	35.0 × 50.0 × 57.5	19.0	6.0	B32658S2904+416	T16	56
		900	35.0 × 50.0 × 57.5	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 = ±10%
- J = ±5%


**B32656S ... B32658S**
**Snubber (wound)**
**Technical data**

Operating temperature range	Max. operating temperature $T_{op,max}$			+110 °C
	Upper category temperature $T_{max}$			+100 °C
	Lower category temperature $T_{min}$			-55 °C
	Rated temperature $T_R$			+85 °C
Dissipation factor $\tan \delta$ (in $10^{-3}$ ) at 20 °C (upper limit values)	at	$C_R \leq 0.1 \mu F$	$0.1 \mu F < C_R \leq 1 \mu F$	$C_R > 1 \mu F$
	1 kHz	–	0.5	0.5
	10 kHz	–	0.8	1.5
	100 kHz	5.0	–	–
Insulation resistance $R_{ins}$ or time constant $\tau = C_R \cdot R_{ins}$ at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values)	$C_R \leq 0.33 \mu F$		$C_R > 0.33 \mu F$	
	100 G $\Omega$		30000 s	
DC test voltage	1.6 · $V_R$ , 2 s			
Category voltage $V_C$ (continuous operation with $V_{DC}$ or $V_{AC}$ at $f \leq 1$ kHz)	$T_{op}$ (°C)	DC voltage derating		AC voltage derating
	$T_{op} \leq 85$	$V_C = V_R$		$V_{C,RMS} = V_{RMS}$
	$85 < T_{op} \leq 110$	$V_C = V_R \cdot (165 - T_{op})/80$		$V_{C,RMS} = V_{RMS} \cdot (165 - T_{op})/80$
Operating voltage $V_{op}$ for short operating periods ( $V_{DC}$ or $V_{AC}$ at $f \leq 1$ kHz)	$T_{op}$ (°C)	DC voltage (max. hours)		AC voltage (max. hours)
	$T_{op} \leq 85$	$V_{op} = 1.25 \cdot V_C$ (2000 h)		$V_{op} = 1.0 \cdot V_{C,RMS}$ (2000 h)
	$85 < T_{op} \leq 100$	$V_{op} = 1.25 \cdot V_C$ (1000 h)		$V_{op} = 1.0 \cdot V_{C,RMS}$ (1000 h)
Damp heat test	56 days/40 °C/93% relative humidity			
Limit values after damp heat test	Capacitance change $ \Delta C/C $			$\leq 3\%$
	Dissipation factor change $\Delta \tan \delta$			$\leq 0.5 \cdot 10^{-3}$ (at 1 kHz) $\leq 1.0 \cdot 10^{-3}$ (at 10 kHz)
	Insulation resistance $R_{ins}$ or time constant $\tau = C_R \cdot R_{ins}$			$\geq 50\%$ of minimum as-delivered values
Reliability:				
Failure rate $\lambda$	1 fit ( $\leq 1 \cdot 10^{-9}/h$ ) at $0.5 \cdot V_R$ , 40 °C			
Service life $t_{SL}$	200 000 h at $1.0 \cdot V_R$ , $T_{op} = 85$ °C			
	Considered self heating for this product family is 15 °C.			
	For conversion to other operating conditions and temperatures, refer to chapter "Reliability", page .			
Failure criteria:				
Total failure	Short circuit or open circuit			
Failure due to variation of parameters	Capacitance change $ \Delta C/C $			$> 10\%$
	Dissipation factor $\tan \delta$			$> 4 \cdot$ upper limit value
	Insulation resistance $R_{ins}$ or time constant $\tau = C_R \cdot R_{ins}$			$< 1500$ M $\Omega$ ( $C_R \leq 0.33 \mu F$ ) $< 500$ s ( $C_R > 0.33 \mu F$ )





### Pulse handling capability

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

"k<sub>0</sub>" represents the maximum permissible pulse characteristic of the waveform applied to the capacitor, expressed in V<sup>2</sup>/μs.

*Note:*

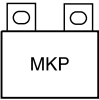
*The values of dV/dt and k<sub>0</sub> provided below must not be exceeded in order to avoid damaging the capacitor.*

#### dV/dt and k<sub>0</sub> values B32656S

V <sub>R</sub> (V DC)	V <sub>RMS</sub> (V AC)	dV/dt in V/μs	k <sub>0</sub> in V <sup>2</sup> /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 k<sub>0</sub> values B32658S

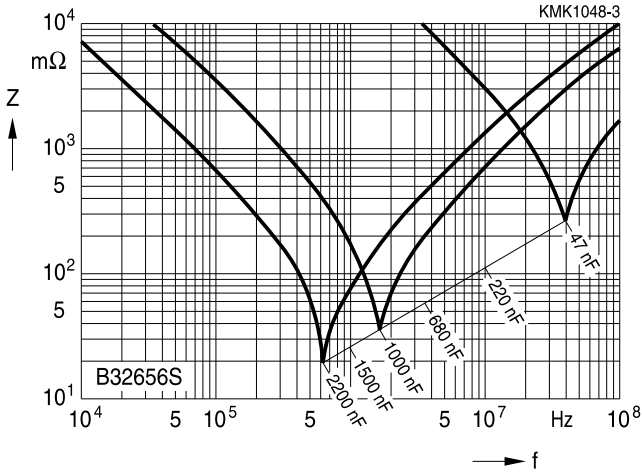
V <sub>R</sub> (V DC)	V <sub>RMS</sub> (V AC)	dV/dt in V/μs	k <sub>0</sub> in V <sup>2</sup> /μs
850	450	275	467 500
1000	480	300	600 000
1250	500	350	875 000
1700	750	400	1 360 000
2000	800	475	1 900 000



**B32656S ... B32658S**

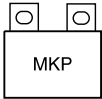
**Snubber (wound)**

**Impedance Z versus frequency f**  
(typical values)



**B32656S**

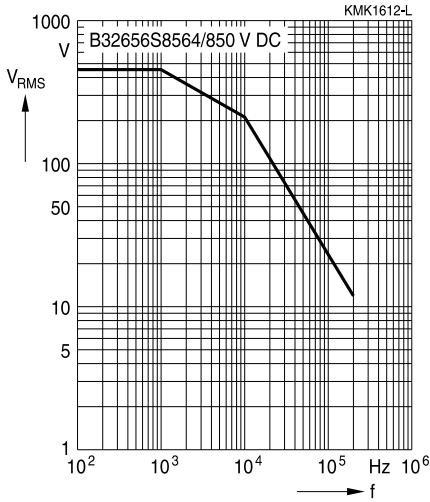
**Snubber (wound)**



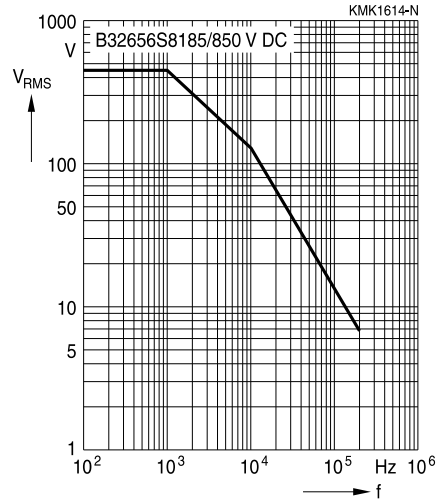
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ C$ )**

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

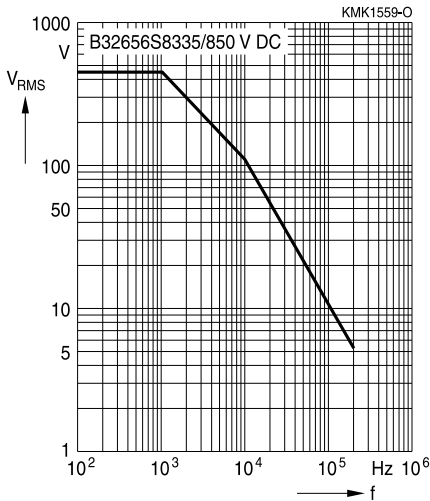
850 V DC/450 V AC, B32656S8564

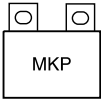


850 V DC/450 V AC, B32656S8185



850 V DC/450 V AC, B32656S8335





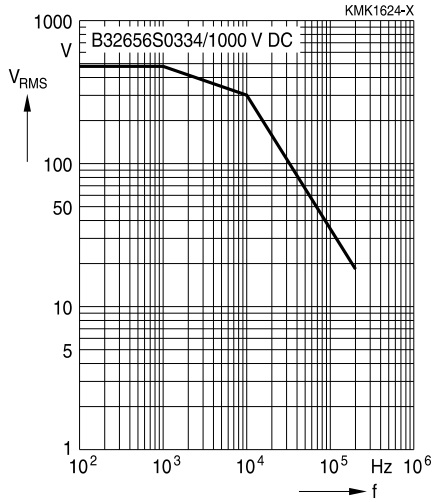
## B32656S

### Snubber (wound)

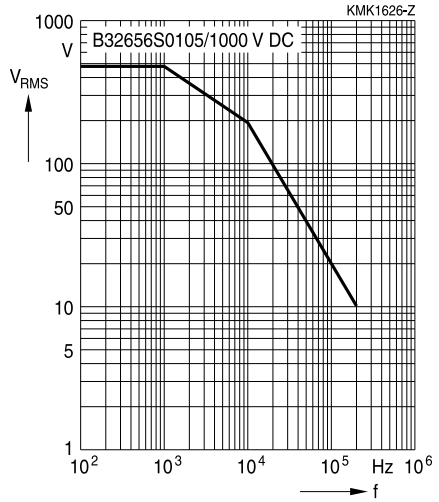
#### Permissible AC voltage $V_{RMS}$ versus frequency $f$ (for sinusoidal waveforms, $T_A \leq 90^\circ\text{C}$ )

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

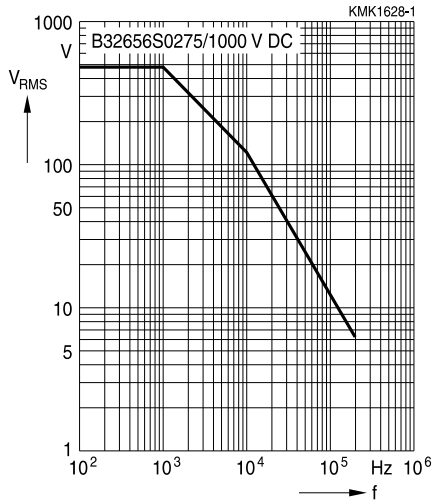
1000 V DC/480 V AC, B32656S0334

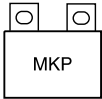


1000 V DC/480 V AC, B32656S0105



1000 V DC/480 V AC, B32656S0275

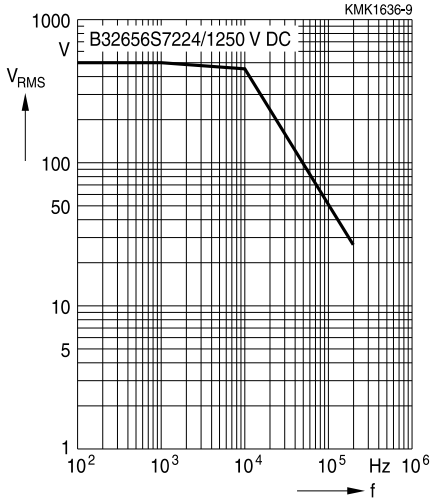




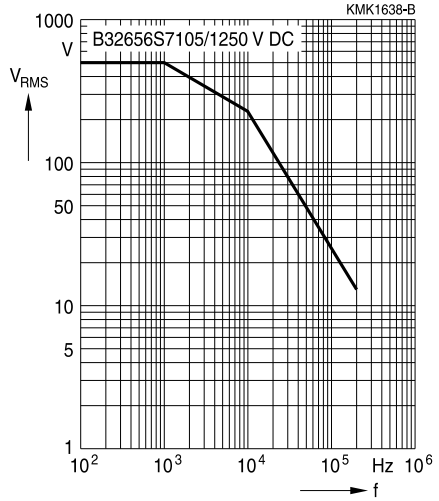
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ C$ )**

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

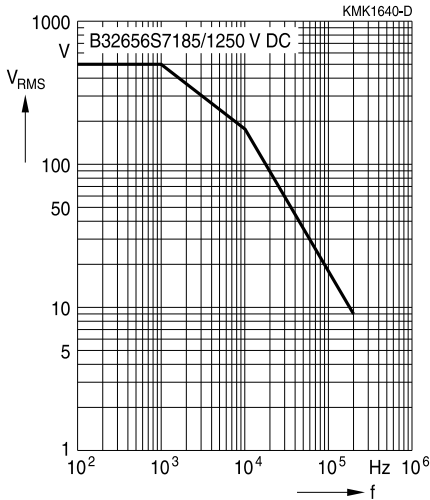
1250 V DC/500 V AC, B32656S7224



1250 V DC/500 V AC, B32656S7105



1250 V DC/500 V AC, B32656S7185





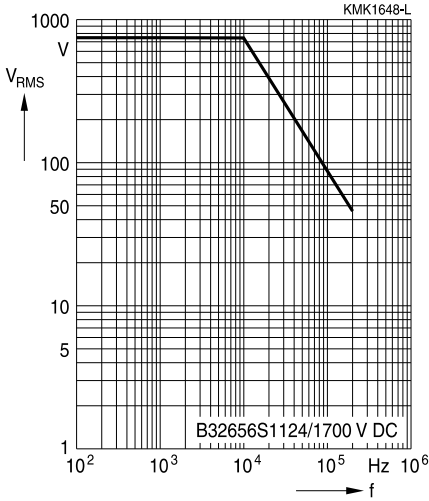
**B32656S**

**Snubber (wound)**

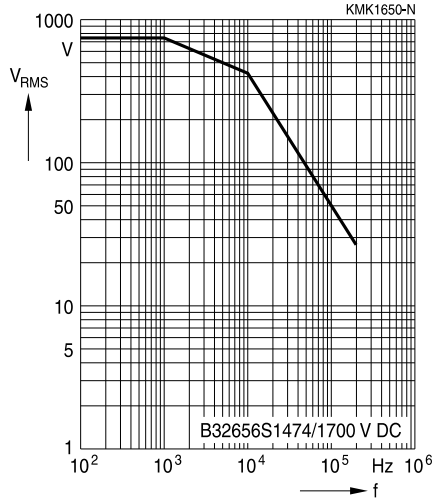
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ C$ )**

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

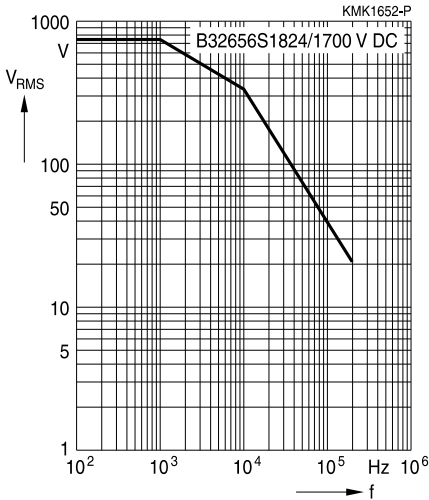
1700 V DC/750 V AC, B32656S1124



1700 V DC/750 V AC, B32656S1474

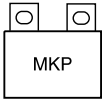


1700 V DC/750 V AC, B32656S1824



**B32656S**

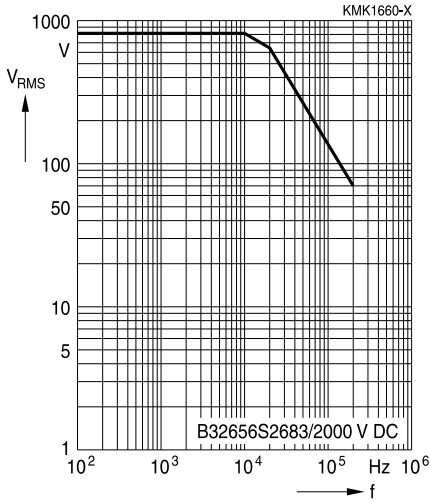
**Snubber (wound)**



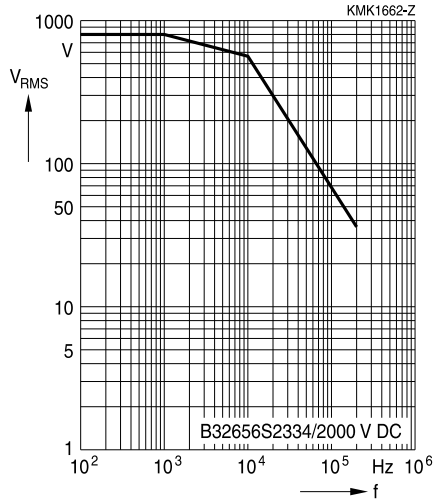
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ C$ )**

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

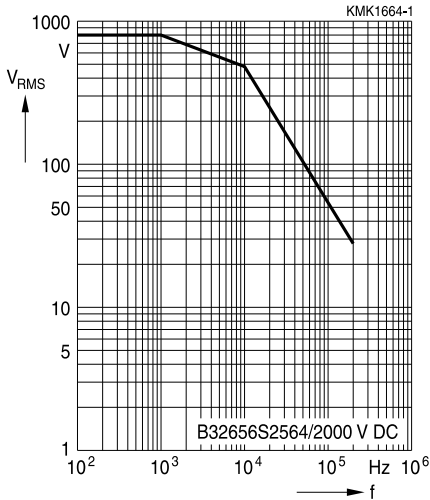
2000 V DC/800 V AC, B32656S2683

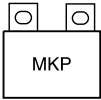


2000 V DC/800 V AC, B32656S2334



2000 V DC/800 V AC, B32656S2564





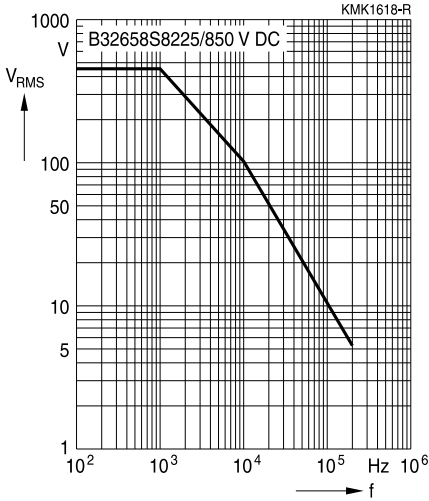
**B32658S**

**Snubber (wound)**

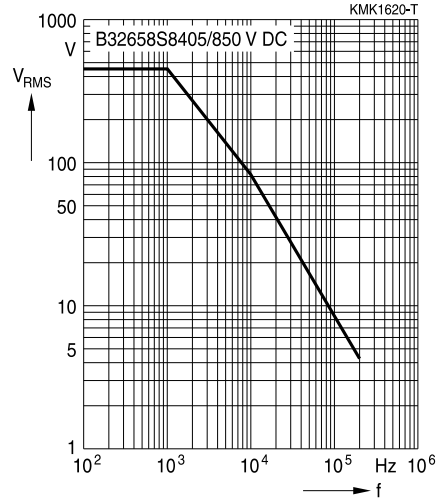
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ C$ )**

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

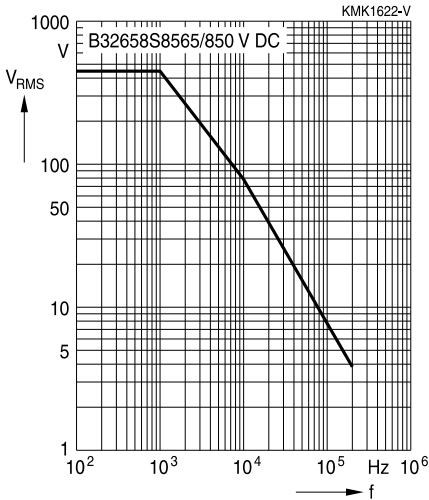
850 V DC/450 V AC, B32658S8225



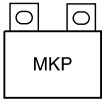
850 V DC/450 V AC, B32658S8405



850 V DC/450 V AC, B32658S8565



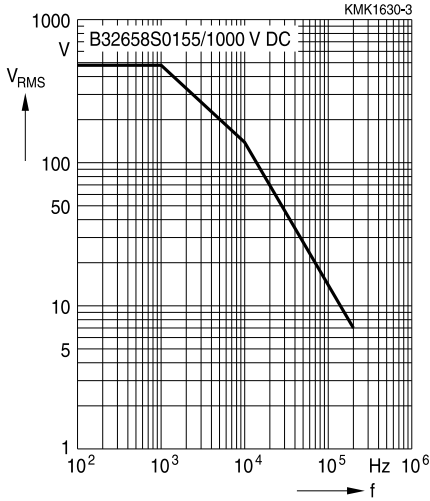




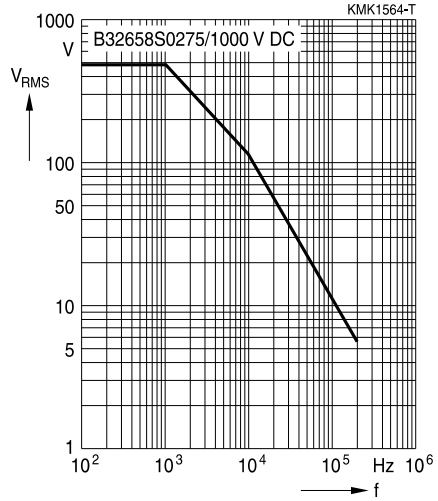
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ C$ )**

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

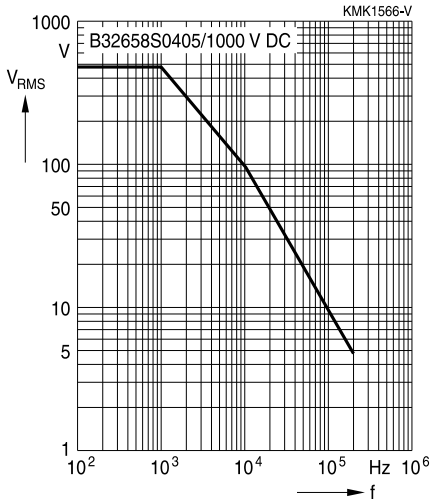
1000 V DC/480 V AC, B32658S0155

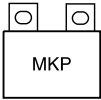


1000 V DC/480 V AC, B32658S0275



1000 V DC/480 V AC, B32658S0405





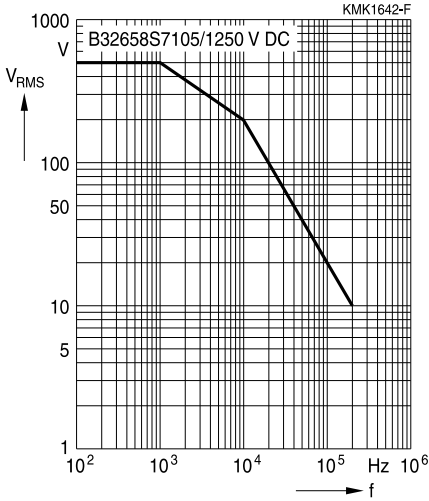
**B32658S**

**Snubber (wound)**

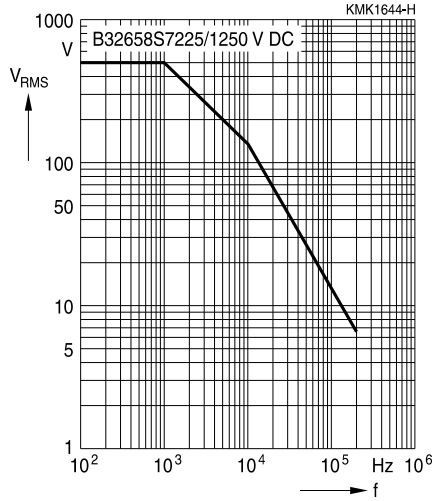
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ C$ )**

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

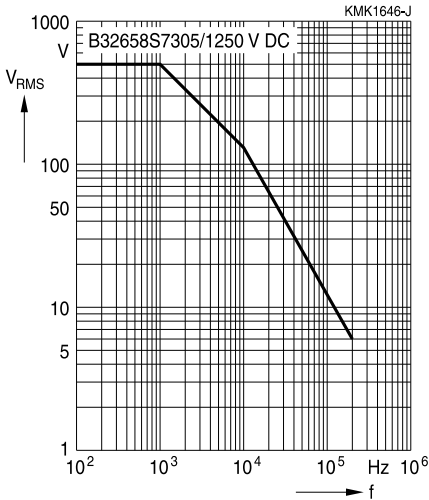
1250 V DC/500 V AC, B32658S7105

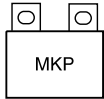


1250 V DC/500 V AC, B32658S7225



1250 V DC/500 V AC, B32658S7305

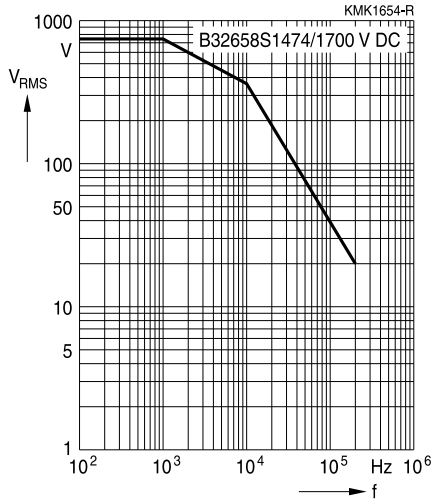




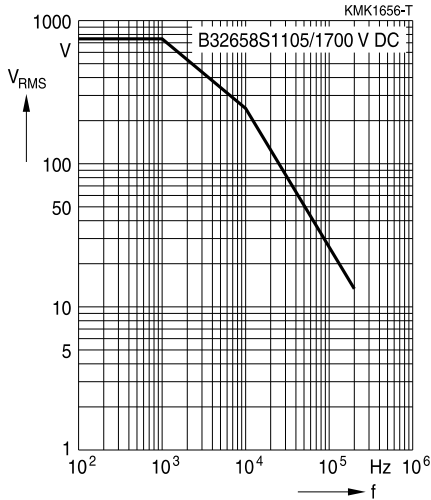
**B32658S**  
**Snubber (wound)**

**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.

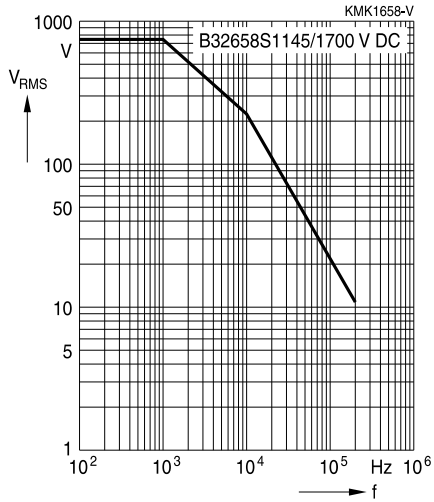
1700 V DC/500 V AC, B32658S1474

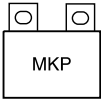


1700 V DC/500 V AC, B32658S1105



1700 V DC/500 V AC, B32658S1145





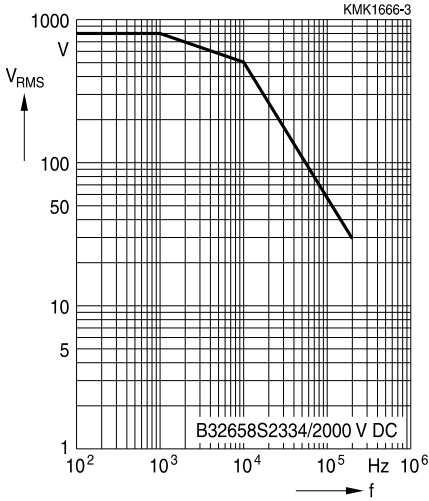
**B32658S**

**Snubber (wound)**

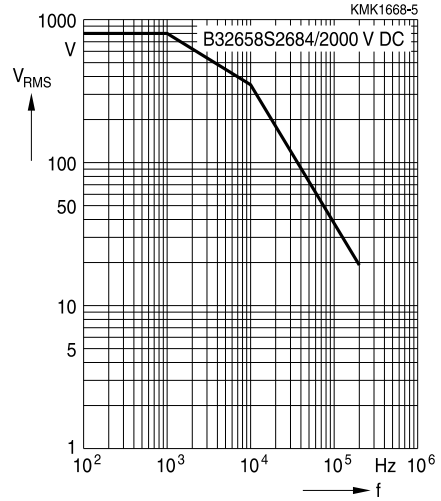
**Permissible AC voltage  $V_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms,  $T_A \leq 90^\circ\text{C}$ )**

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

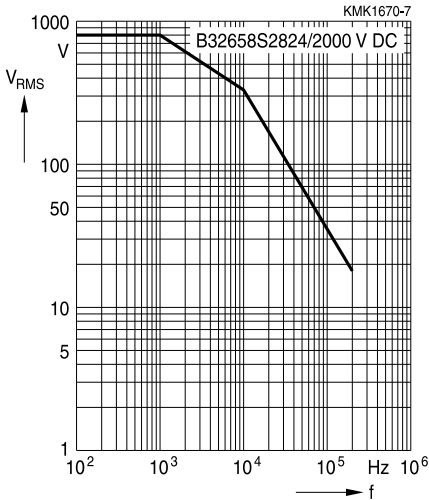
2000 V DC/800 V AC, B32658S2334



2000 V DC/800 V AC, B32658S2684

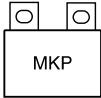


2000 V DC/800 V AC, B32658S2824



**B32656S**

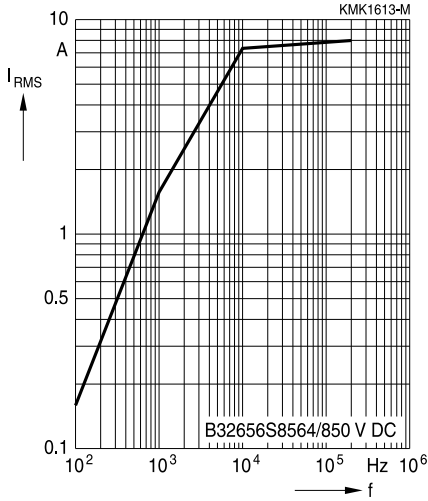
**Snubber (wound)**



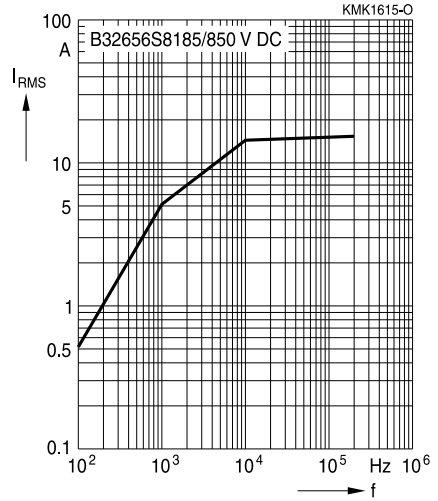
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

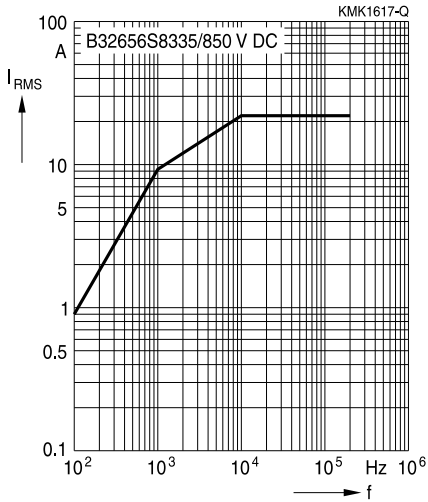
850 V DC/450 V AC, B32656S8564



850 V DC/450 V AC, B32656S8185



850 V DC/450 V AC, B32656S8335





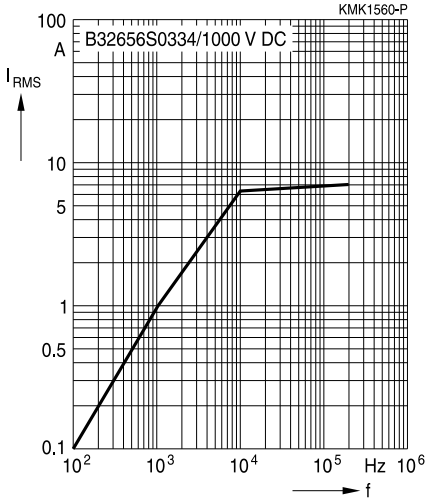
**B32656S**

**Snubber (wound)**

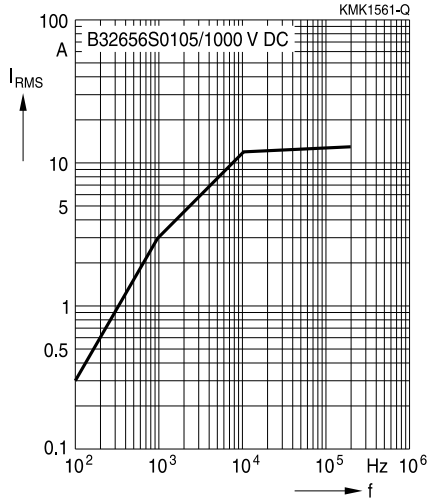
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

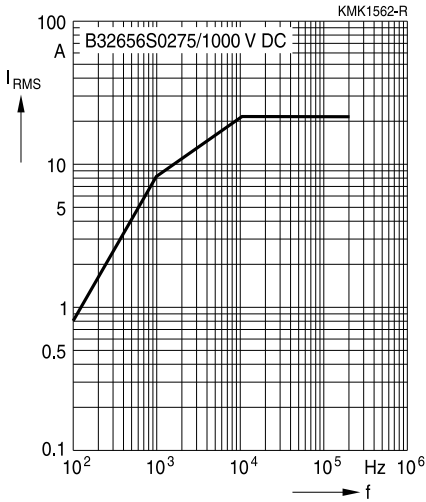
1000 V DC/480 V AC, B32656S0334



1000 V DC/480 V AC, B32656S0105



1000 V DC/480 V AC, B32656S0275



**B32656S**

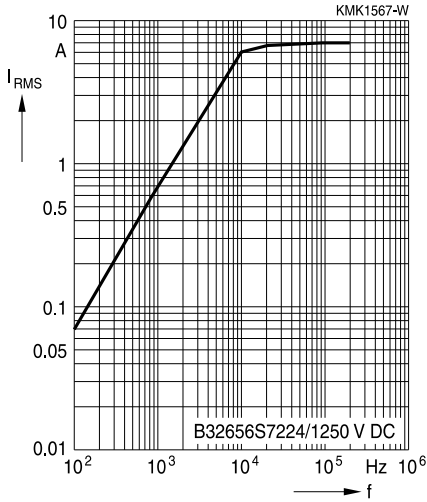
**Snubber (wound)**



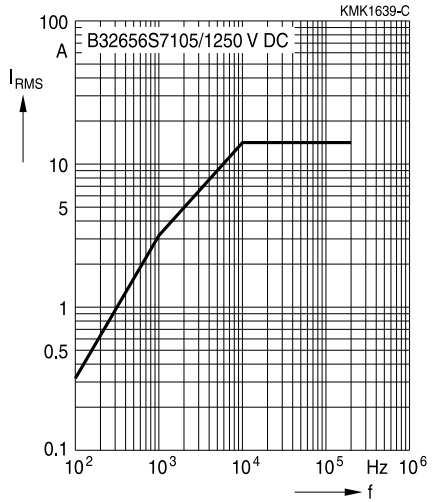
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

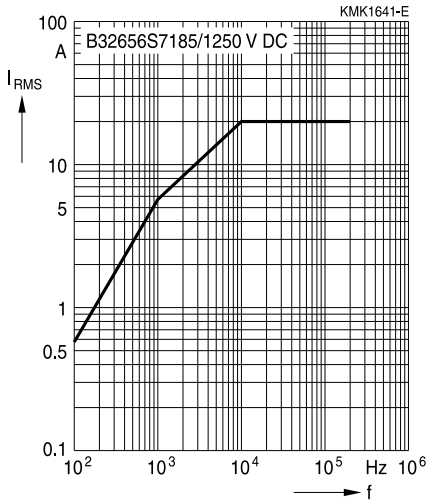
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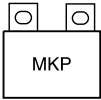


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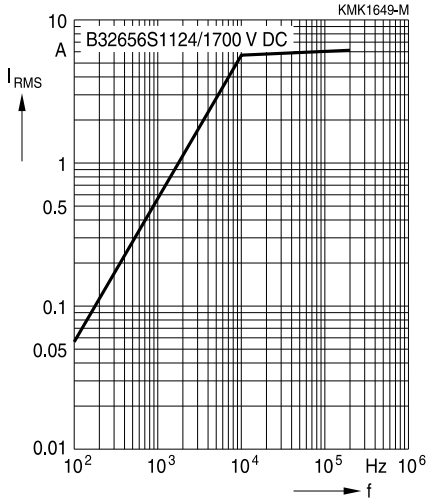
**B32656S**

**Snubber (wound)**

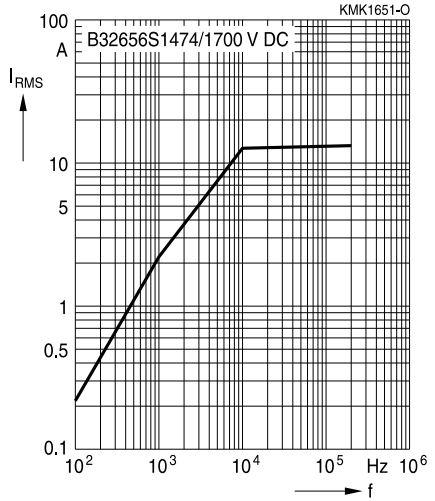
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

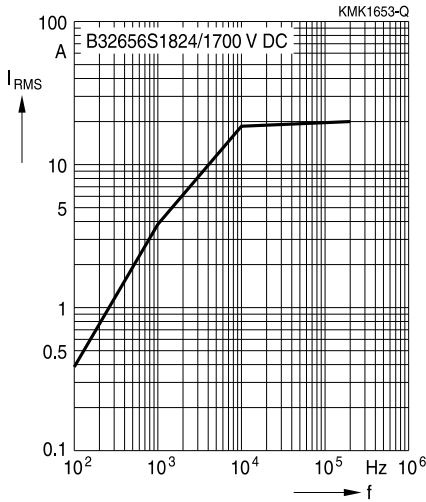
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1700 V DC/750 V AC, B32656S1474



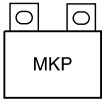
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**B32656S**

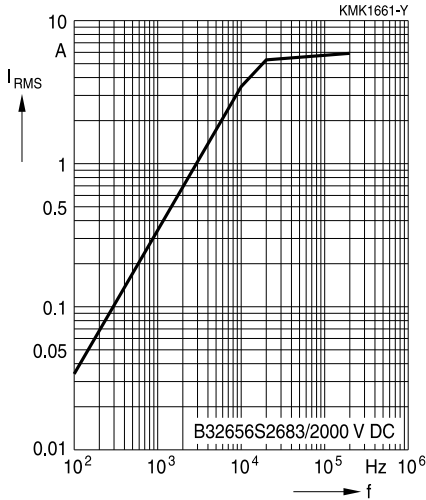
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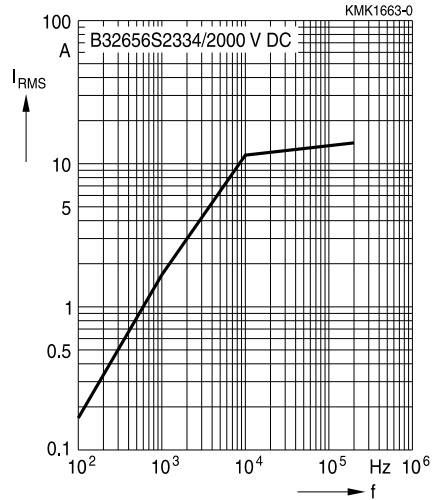
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

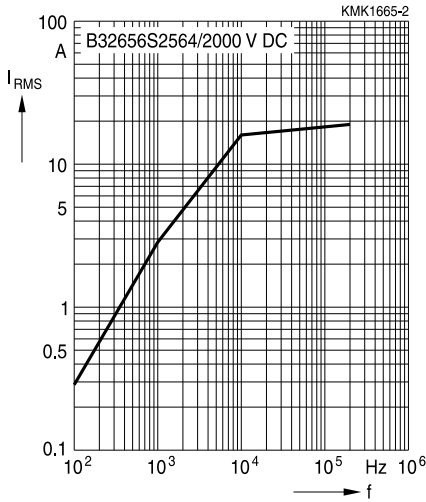
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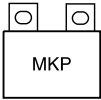


2000 V DC/800 V AC, B32656S2334



2000 V DC/800 V AC, B32656S2564

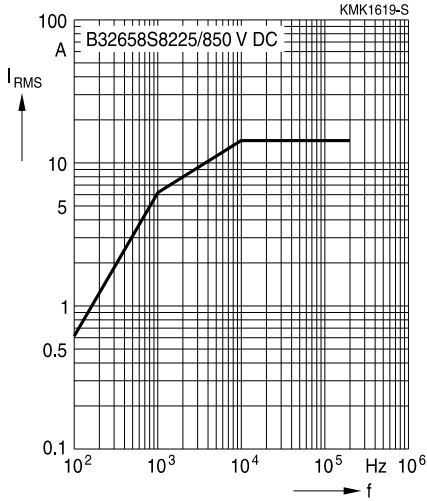




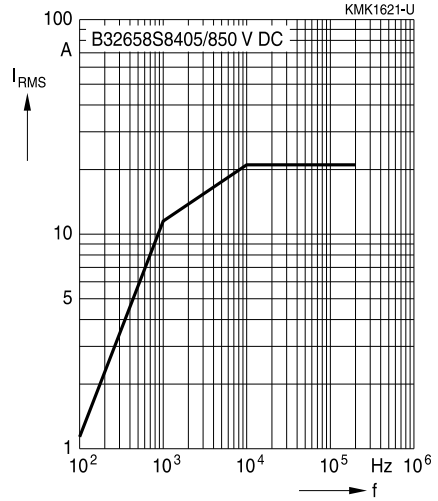
**B32658S**  
**Snubber (wound)**

**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**  
For  $T_A > 90\text{ }^\circ\text{C}$ , please use derating factor  $F_T$ .

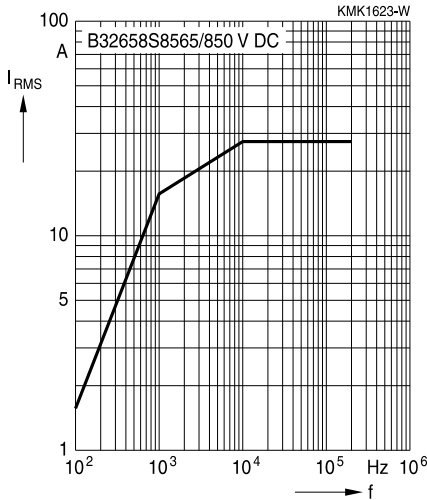
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850 V DC/450 V AC, B32658S8405



850 V DC/450 V AC, B32658S8565

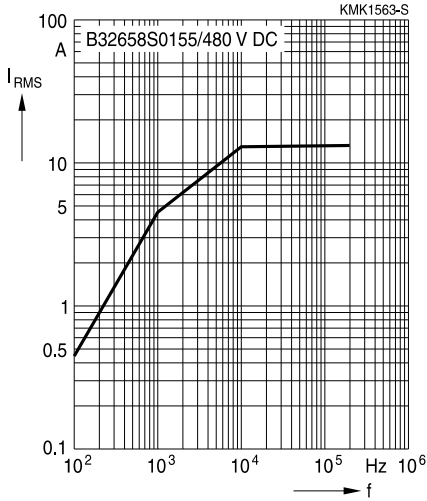




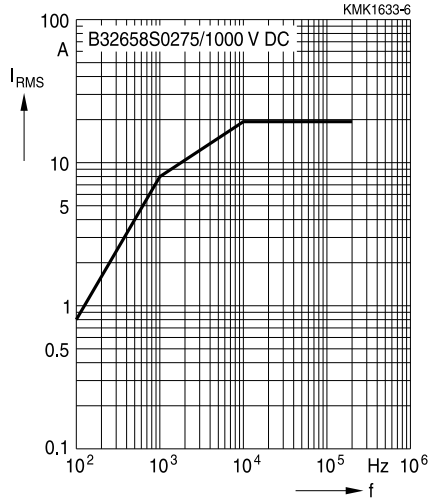
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

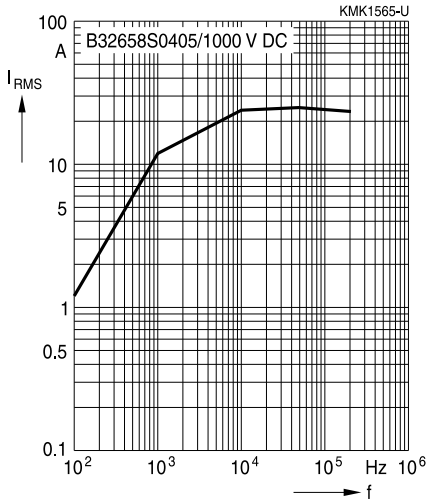
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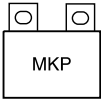


1000 V DC/480 V AC, B32658S0275



1000 V DC/480 V AC, B32658S0405





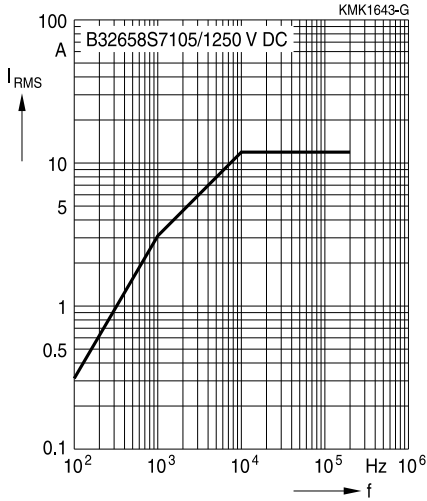
**B32658S**

**Snubber (wound)**

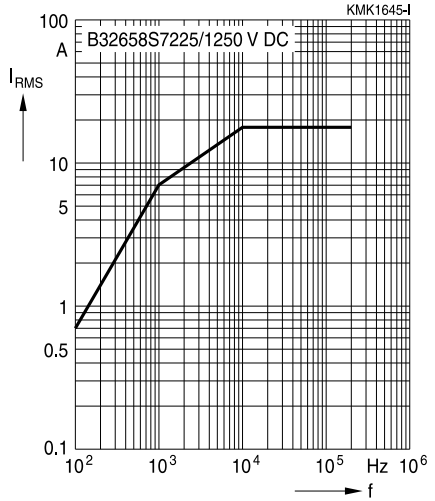
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

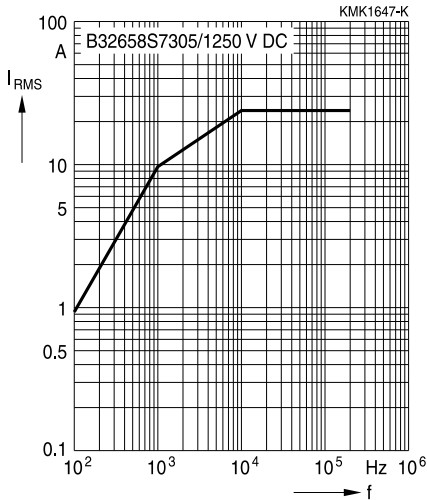
1250 V DC/500 V AC, B32658S7105

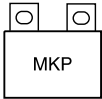


1250 V DC/500 V AC, B32658S7225



1250 V DC/500 V AC, B32658S7305

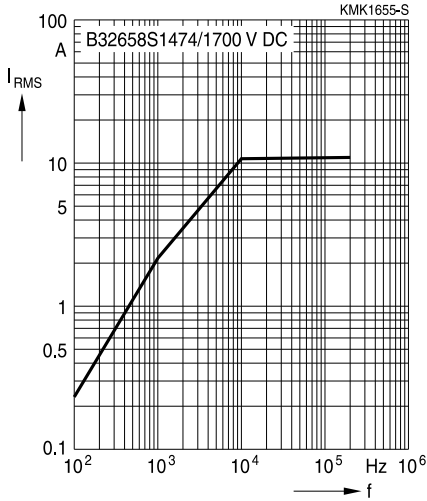




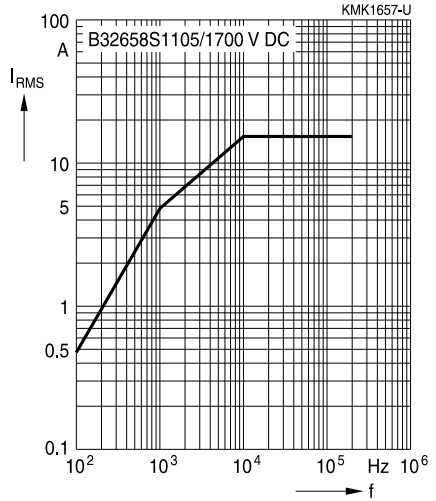
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

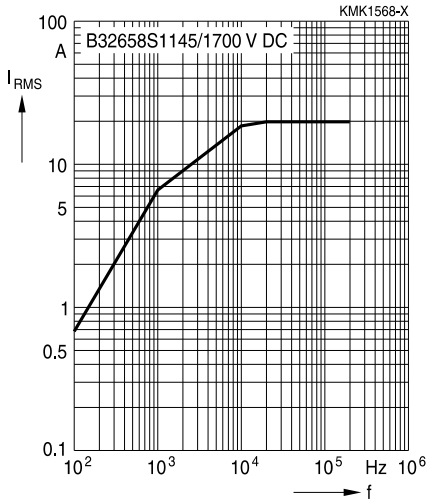
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1700 V DC/500 V AC, B32658S1105



1700 V DC/500 V AC, B32658S1145





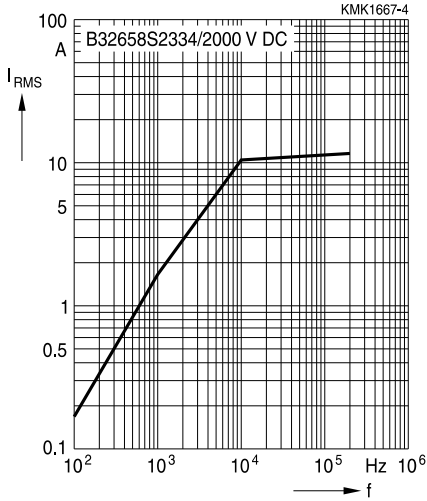
**B32658S**

**Snubber (wound)**

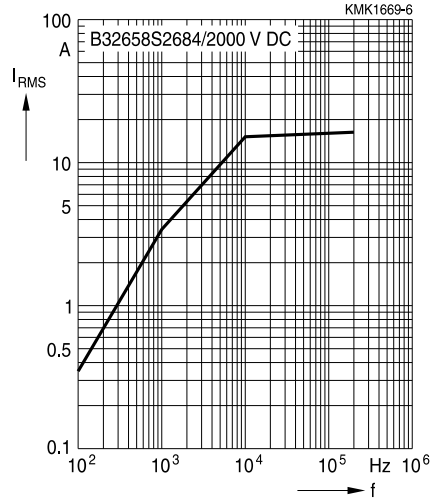
**Permissible current  $I_{RMS}$  versus frequency  $f$  (for sinusoidal waveforms  $T_A \leq 90\text{ }^\circ\text{C}$ )**

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

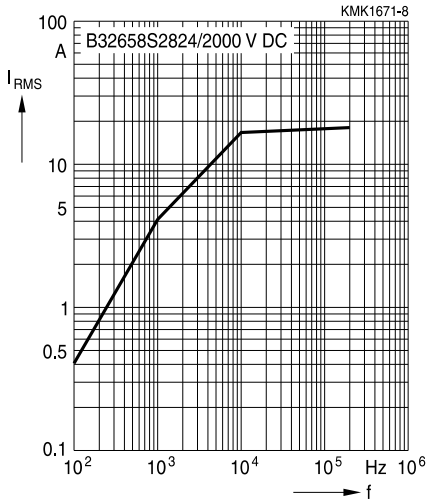
2000 V DC/800 V AC, B32658S2334

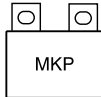


2000 V DC/800 V AC, B32658S2684



2000 V DC/800 V AC, B32658S2824





**Maximum AC voltage ( $V_{RMS}$ ), current ( $I_{RMS}$ ) vs. frequency and temperature for  $T_A > 90\text{ }^\circ\text{C}$**

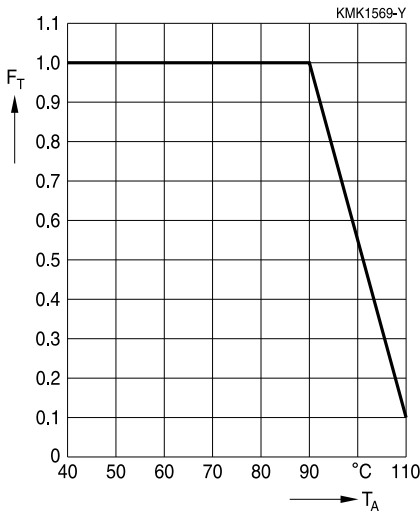
The graphs described in the previous section for the permissible AC voltage ( $V_{RMS}$ ) or current ( $I_{RMS}$ ) vs. frequency are given for a maximum ambient temperature  $T_A \leq 90\text{ }^\circ\text{C}$ . In case of higher ambient temperatures ( $T_A$ ), the self-heating ( $\Delta T$ ) of the 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:

$$I_{RMS}(T_A) = I_{RMS, T_A \leq 90\text{ }^\circ\text{C}} \cdot F_T(T_A)$$

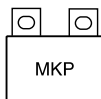
$$V_{RMS}(T_A) = V_{RMS, T_A \leq 90\text{ }^\circ\text{C}} \cdot F_T(T_A)$$

And  $F_T$  is given by the following curve:

**Curves Characteristics ( $I_{RMS}$  derating vs temperature)**



Maximum  $I_{RMS}$  current as function of the ambient temperature:  $I_{RMS}(T_{amb}) = \text{Factor} \times I_{RMS}(90\text{ }^\circ\text{C})$



**B32656S ... B32658S**

**Snubber (wound)**

### Testing and Standards

Test	Reference	Conditions of test	Performance requirements
Electrical Parameters	IEC 60384-16	Voltage proof, $1.6 V_R$ , 1 minute Insulation resistance, $R_{INS}$ Capacitance, C Dissipation factor, $\tan \delta$	Within specified limits
Robustness of terminations	IEC 60068-2-21	Only tests Ua1 (20N) and Ud	Capacitance and $\tan \delta$ within specified limits
Rapid change of temperature	IEC 60384-16	$T_A$ = lower category temperature $T_B$ = upper category temperature Five cycles, duration $t = 30$ min	$ \Delta C/C_0  \leq 2\%$ $ \Delta \tan \delta  \leq 0.002$ $R_{INS} \geq 50\%$ of initial limit
Vibration	IEC 60384-16	Test $F_c$ : vibration sinusoidal Displacement: 0.75 mm Acceleration: $98 \text{ m/s}^2$ Frequency: 10 Hz ... 500 Hz Test duration: 3 orthogonal axes, 2 hours each axe	No visible damage
Bump	IEC 60384-16	Test Eb: Total 4000 bumps with $390 \text{ m/s}^2$ mounted on PCB 6 ms duration	No visible damage $ \Delta C/C_0  \leq 2\%$ $ \Delta \tan \delta  \leq 0.002$ $R_{INS} \geq 50\%$ of initial limit
Climatic sequence	IEC 60384-16	Dry heat $T_b$ / 16 h. Damp heat cyclic, 1st cycle + $55 \text{ }^\circ\text{C}$ / 24h / 95% ... 100% RH Cold $T_a$ / 2h Damp heat cyclic, 5 cycles + $55 \text{ }^\circ\text{C}$ / 24h / 95% ... 100% rh	No visible damage $ \Delta C/C_0  \leq 3\%$ $ \Delta \tan \delta  \leq 0.003$ $R_{INS} \geq 50\%$ of initial limit
Damp Heat Steady State	IEC 60384-16	Test Ca $40 \text{ }^\circ\text{C}$ / 93% RH / 56 days	No visible damage $ \Delta C/C_0  \leq 3\%$ $ \Delta \tan \delta  \leq 0.002$ $R_{INS} \geq 50\%$ of initial limit
High temperature high humidity with load		$60 \text{ }^\circ\text{C}$ / 95% RH / 1000 hours with $V_{R,DC}$	No visible damage $ \Delta C/C_0  \leq 10\%$ $ \Delta \tan \delta  \leq 0.002$ $R_{INS} \geq 50\%$ of initial limit
Endurance A		$85 \text{ }^\circ\text{C}$ / $1.25 V_R$ / 2000 hours	No visible damage $ \Delta C/C_0  \leq 3\%$ $ \Delta \tan \delta  \leq 0.002$ $R_{INS} \geq 50\%$ of initial limit
Endurance B		$110 \text{ }^\circ\text{C}$ / $1.25 V_C$ / 2000 hours	No visible damage $ \Delta C/C_0  \leq 3\%$ $ \Delta \tan \delta  \leq 0.002$ $R_{INS} \geq 50\%$ of initial limit



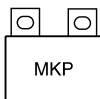


### Cautions and warnings

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

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

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



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**Snubber (wound)**

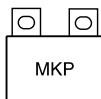
Topic	Safety information	Reference chapter "Mounting guidelines"
Soldering	Do not exceed the specified time or temperature limits during soldering.	1 "Soldering"
Cleaning	Use only suitable solvents for cleaning capacitors.	2 "Cleaning"
Embedding of capacitors in finished assemblies	When embedding finished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

### Display of ordering codes for EPCOS products

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications and the website of EPCOS, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products.** Detailed information can be found on the Internet under [www.epcos.com/orderingcodes](http://www.epcos.com/orderingcodes).


**Symbols and terms**

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


**B32656S ... B32658S**
**Snubber (wound)**

Symbol	English	German
$I_{RMS}$	(Sinusoidal) alternating current, root-mean-square value	(Sinusförmiger) Wechselstrom
$i_z$	Capacitance drift	Inkonstanz der Kapazität
$k_0$	Pulse characteristic	Impuls Kennwert
$L_S$	Series inductance	Serieninduktivität
$\lambda$	Failure rate	Ausfallrate
$\lambda_0$	Constant failure rate during useful service life	Konstante Ausfallrate in der Nutzungsphase
$\lambda_{test}$	Failure rate, determined by tests	Experimentell ermittelte Ausfallrate
$P_{diss}$	Dissipated power	Abgegebene Verlustleistung
$P_{gen}$	Generated power	Erzeugte Verlustleistung
$Q$	Heat energy	Wärmeenergie
$\rho$	Density of water vapor in air	Dichte von Wasserdampf in Luft
$R$	Universal molar constant for gases	Allg. Molarkonstante für Gas
$R$	Ohmic resistance of discharge circuit	Ohmscher Widerstand des Entladekreises
$R_i$	Internal resistance	Innenwiderstand
$R_{ins}$	Insulation resistance	Isolationswiderstand
$R_P$	Parallel resistance	Parallelwiderstand
$R_S$	Series resistance	Serienwiderstand
$S$	severity (humidity test)	Schärfegrad (Feuchtest)
$t$	Time	Zeit
$T$	Temperature	Temperatur
$\tau$	Time constant	Zeitkonstante
$\tan \delta$	Dissipation factor	Verlustfaktor
$\tan \delta_D$	Dielectric component of dissipation factor	Dielektrischer Anteil des Verlustfaktors
$\tan \delta_P$	Parallel component of dissipation factor	Parallelanteil des Verlustfaktors
$\tan \delta_S$	Series component of dissipation factor	Serienanteil des Verlustfaktors
$T_A$	Temperature of the air surrounding the component	Temperatur der Luft, die das Bauteil umgibt
$T_{max}$	Upper category temperature	Obere Kategorietemperatur
$T_{min}$	Lower category temperature	Untere Kategorietemperatur
$t_{OL}$	Operating life at operating temperature and voltage	Betriebszeit bei Betriebstemperatur und -spannung
$T_{op}$	Operating temperature	Betriebstemperatur
$T_R$	Rated temperature	Nenntemperatur
$T_{ref}$	Reference temperature	Referenztemperatur
$t_{SL}$	Reference service life	Referenz-Lebensdauer



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

## Important notes

The following applies to all products named in this publication:

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