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Film Capacitors

Metallized Polypropylene Film Capacitors (MKP)

Series/Type: B32674 ... B32678

Date: February 2017

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MKP DC link – high power series**Recommended applications**

- Frequency converters
- Industrial and high-end power supplies
- Solar inverters

Climatic

- Max. operating temperature: 105 °C (case)
- Climatic category (IEC 60068-1): 40/105/56

Construction

- Dielectric: Polypropylene (MKP)
- Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Features

- Capacitance value up to 270 μ F
- High CV product, compact
- Good self-healing properties
- Over-voltage capability
- Low losses with high current capability
- High reliability
- Long useful life

Terminals

- Parallel wire leads, lead-free tinned
- 2-pin, 4-pin and 12-pin versions
- Standard lead lengths: 6 – 1 mm

Marking

Manufacturer's logo and lot number,
date code, rated capacitance (coded),
capacitance tolerance (code letter),
rated DC voltage

Delivery mode

Bulk (untaped, lead length 6 – 1 mm)



B32674 ... B32678

MKP DC link – high power series

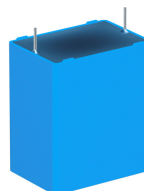
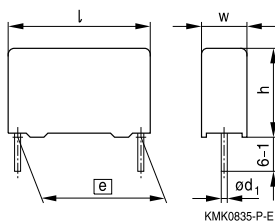
Dimensional drawings

Dimensions in mm

Number of wires	Lead spacing $[e] \pm 0.4$	Lead diameter $d_1 \pm 0.05$	Type
2-pin	27.5	0.8	B32674D
2-pin	37.5	1.0	B32676T
4-pin	37.5	1.2	B32676G
4-pin	37.5	1.2	B32676T
4-pin	52.5	1.2	B32678G
4-pin	52.5	1.2	B32678T
12-pin	52.5	1.2	B32678J

Dimensional drawings 2-pin versions

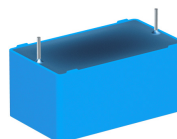
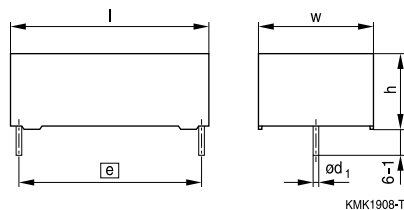
B32674D



Lead spacing $[e] \pm 0.4$:	27.5
Lead diameter d_1 :	0.8

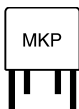
(Dimensions in mm)

B32676T (low profile)



Lead spacing $[e] \pm 0.4$:	37.5
Lead diameter d_1 :	1.0

(Dimensions in mm)

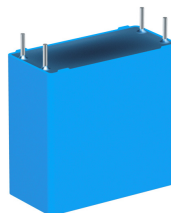
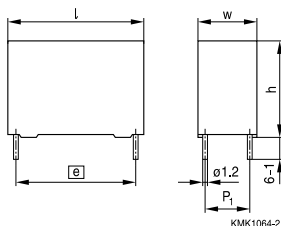


B32674 ... B32678

MKP DC link – high power series

Dimensional drawings 4-pin versions

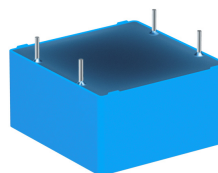
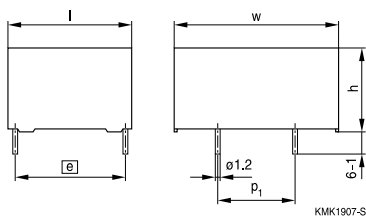
B32676G, B32678G



	B32676G	B32678G
Lead spacing $e \pm 0.4$:	37.5	52.5
Lead diameter d_1 :	1.2	1.2

(Dimensions in mm)

B32676T, B32678T (low profile)

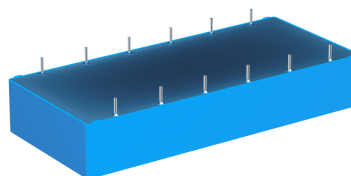
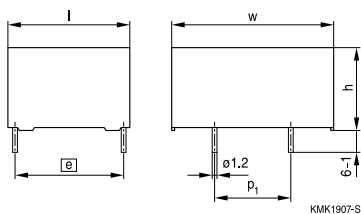


	B32676T	B32678T
Lead spacing $e \pm 0.4$:	37.5	52.5
Lead diameter d_1 :	1.2	1.2

(Dimensions in mm)

Dimensional drawing 12-pin version

B32678J



Lead spacing $e \pm 0.4$:	52.5
Lead diameter d_1 :	1.2

(Dimensions in mm)


Overview of available types

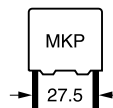
Lead spacing	27.5 mm					37.5 mm				
Type	B32674					B32676				
Page	7					9				
V _R (V DC)	300	450	630	750	875	300	450	630	750	875
C _R (μF)										
0.47										
0.68										
1.0										
1.5										
2.0										
2.2										
2.7										
3.0										
3.3										
3.5										
4.0										
4.7										
5.0										
5.6										
6.0										
6.2										
6.8										
7.5										
8.0										
8.2										
9.0										
10										
12										
13										
14										
15										
20										
22										
25										
30										
35										



B32674 ... B32678

MKP DC link – high power series

Lead spacing	52.5 mm				
Type	B32678				
Page	11				
V_R (V DC)	300	450	630	750	875
C_R (μ F)					
7.0					
9.0					
13					
15					
20					
22					
24					
25					
28					
30					
35					
38					
40					
45					
47					
60					
65					
80					
85					
100					
120					
180					
270					


Ordering codes and packing units (lead spacing 27.5 mm)

C _R ¹⁾	Max. dimensions w × h × l	P ₁	Ordering code (composition see below)	I _{RMS,max} ²⁾ 70 °C 10 kHz A	ESR _{typ} ²⁾ 70 °C 10 kHz mΩ	ESL _{typ} ³⁾ nH	tan δ 1 kHz 10 ⁻³	tan δ 10 kHz 10 ⁻³	MOQ
μF	mm	mm							pcs.
V_{R,85 °C} = 300 V DC, V_{op,70 °C} = 450 V DC									
2.2	11.0 × 19.0 × 31.5	–	B32674D3225+000	5.0	18.1	16.0	0.7	4.1	1280
3.3	12.5 × 21.5 × 31.5	–	B32674D3335+000	7.0	12.2	19.0	0.7	4.1	1120
4.7	14.0 × 24.5 × 31.5	–	B32674D3475+000	8.5	8.9	21.0	0.7	4.2	1040
5.0	15.0 × 24.5 × 31.5	–	B32674D3505+000	9.0	8.4	21.0	0.7	4.2	960
6.8	18.0 × 27.5 × 31.5	–	B32674D3685+000	11.5	6.3	24.0	0.7	4.4	800
8.0	16.0 × 32.0 × 31.5	–	B32674D3805+000	12.5	5.6	27.0	0.7	4.5	880
8.2	18.0 × 33.0 × 31.5	–	B32674D3825+000	13.0	5.5	27.0	0.7	4.5	800
10.0	21.0 × 31.0 × 31.5	–	B32674D3106+000	14.5	4.6	27.0	0.8	4.6	720
12.0	22.0 × 36.5 × 31.5	–	B32674D3126+000	17.0	4.0	31.0	0.8	4.9	640
V_{R,85 °C} = 450 V DC, V_{op,70 °C} = 630 V DC									
1.5	11.0 × 19.0 × 31.5	–	B32674D4155+000	4.5	22.1	16.0	0.6	3.3	1280
2.2	12.5 × 21.5 × 31.5	–	B32674D4225+000	6.0	14.9	19.0	0.6	3.3	1120
3.3	15.0 × 24.5 × 31.5	–	B32674D4335+000	8.0	10.3	22.0	0.6	3.4	960
4.7	18.0 × 27.5 × 31.5	–	B32674D4475+000	10.5	7.5	24.0	0.6	3.5	800
5.0	16.0 × 32.0 × 31.5	–	B32674D4505+000	11.0	7.1	28.0	0.7	3.6	880
5.6	18.0 × 33.0 × 31.5	–	B32674D4565+000	12.0	6.3	29.0	0.7	3.6	800
6.0	21.0 × 31.0 × 31.5	–	B32674D4605+000	13.0	5.9	28.0	0.7	3.6	720
6.8	22.0 × 36.5 × 31.5	–	B32674D4685+000	14.5	5.4	29.0	0.7	3.7	640
7.5	22.0 × 36.5 × 31.5	–	B32674D4755+000	15.0	5.0	32.0	0.7	3.8	640
V_{R,85 °C} = 630 V DC, V_{op,70 °C} = 800 V DC									
1.0	11.0 × 19.0 × 31.5	–	B32674D6105+000	4.0	26.1	17.0	0.6	2.7	1280
1.5	12.5 × 21.5 × 31.5	–	B32674D6155+000	5.5	17.9	19.0	0.6	2.7	1120
2.2	15.0 × 24.5 × 31.5	–	B32674D6225+000	7.5	12.4	21.0	0.6	2.7	960
3.3	16.0 × 32.0 × 31.5	–	B32674D6335+000	10.0	8.5	28.0	0.6	2.8	880
4.7	22.0 × 36.5 × 31.5	–	B32674D6475+000	13.5	6.0	31.0	0.6	3.0	640
5.0	22.0 × 36.5 × 31.5	–	B32674D6505+000	14.5	5.8	31.0	0.6	3.0	640

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

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code:

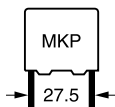
K = ±10%

J = ±5%

1) Capacitance value measured at 1 kHz

2) Max. ripple current I_{RMS} at 70 °C at 10 kHz for a ΔT ≤ 20 °C when ΔESR_{typ} ≤ ±5%

3) ESL value measured at resonance frequency (see specific graphs of Z vs freq)


B32674
MKP DC link – high power series
Ordering codes and packing units (lead spacing 27.5 mm)

$C_R^{4)}$	Max. dimensions $w \times h \times l$	P_1	Ordering code (composition see below)	$I_{RMS,max}^{5)}$ 70 °C 10 kHz A	ESR_{typ} 70 °C 10 kHz mΩ	$ESL_{typ}^{6)}$ nH	$\tan \delta$ 1 kHz 10^{-3}	$\tan \delta$ 10 kHz 10^{-3}	MOQ
μF	mm	mm							pcs.
$V_{R,85\text{ °C}} = 750\text{ V DC}, V_{op,70\text{ °C}} = 900\text{ V DC}$									
0.68	11.0 × 19.0 × 31.5	–	B32674D1684+000	3.5	34.7	17.0	0.5	2.4	1280
1.0	12.5 × 21.5 × 31.5	–	B32674D1105+000	4.5	24.2	18.0	0.5	2.5	1120
1.5	14.0 × 24.5 × 31.5	–	B32674D1155+000	6.5	16.3	22.0	0.6	2.5	1040
2.2	18.0 × 27.5 × 31.5	–	B32674D1225+000	8.5	11.3	24.0	0.6	2.5	800
3.3	21.0 × 31.0 × 31.5	–	B32674D1335+000	11.0	7.9	28.0	0.6	2.6	720
4.0	22.0 × 36.5 × 31.5	–	B32674D1405+000	13.0	6.7	32.0	0.6	2.7	640
$V_{R,85\text{ °C}} = 875\text{ V DC}, V_{op,70\text{ °C}} = 1050\text{ V DC}$									
0.47	11.0 × 19.0 × 31.5	–	B32674D8474+000	3.0	45.2	16.0	0.5	2.2	1280
0.68	11.0 × 21.0 × 31.5	–	B32674D8684+000	4.0	31.5	19.0	0.5	2.2	1280
1.0	13.5 × 23.0 × 31.5	–	B32674D8105+000	5.0	22.2	20.0	0.5	2.2	1040
1.5	18.0 × 27.5 × 31.5	–	B32674D8155+000	7.5	14.7	23.0	0.5	2.2	800
2.2	18.0 × 33.0 × 31.5	–	B32674D8225+000	9.5	10.3	29.0	0.5	2.3	800
3.0	22.0 × 36.5 × 31.5	–	B32674D8305+000	12.0	7.8	31.0	0.5	2.4	640

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

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code:

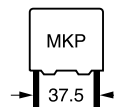
K = ±10%

J = ±5%

4) Capacitance value measured at 1 kHz

 5) Max. ripple current I_{RMS} at 70 °C at 10 kHz for a $\Delta T \leq 20\text{ °C}$ when $\Delta ESR_{typ} \leq \pm 5\%$

6) ESL value measured at resonance frequency (see specific graphs of Z vs freq)


Ordering codes and packing units (lead spacing 37.5 mm)

$C_R^{1)}$	Max. dimensions $w \times h \times l$	P_1	Ordering code (composition see below)	$I_{RMS,max}^{2)}$ 70 °C 10 kHz A	ESR_{typ} 70 °C 10 kHz mΩ	$ESL_{typ}^{3)}$ nH	$\tan \delta$ 1 kHz 10^{-3}	$\tan \delta$ 10 kHz 10^{-3}	MOQ
μF	mm	mm							pcs.
$V_{R,85\text{ °C}} = 300\text{ V DC}$, $V_{op,70\text{ °C}} = 450\text{ V DC}$									
6.2	24.0 × 15.0 × 41.5	–	B32676T3625+000	8.0	12.6	18.0	1.1	8.2	1040
9.0	24.0 × 19.0 × 41.5	–	B32676T3905+000	10.0	9.1	19.0	1.1	8.3	780
15.0	20.0 × 39.5 × 42.0	10.2	B32676G3156+000	16.0	5.4	10.0	1.1	8.3	640
20.0	28.0 × 37.0 × 42.0	10.2	B32676G3206+000	20.0	4.0	11.0	1.1	8.4	440
20.0	43.0 × 22.0 × 41.5	20.3	B32676T3206K000	19.5	4.0	13.0	1.1	8.3	280
22.0	28.0 × 42.5 × 42.0	10.2	B32676G3226+000	21.5	3.8	11.0	1.2	8.5	440
25.0	28.0 × 42.5 × 42.0	10.2	B32676G3256+000	22.5	3.4	12.0	1.2	8.6	440
30.0	30.0 × 45.0 × 42.0	20.3	B32676G3306+000	26.0	2.8	12.0	1.2	8.7	400
35.0	33.0 × 48.0 × 42.0	20.3	B32676G3356+000	29.5	2.5	13.0	1.2	8.8	180
$V_{R,85\text{ °C}} = 450\text{ V DC}$, $V_{op,70\text{ °C}} = 630\text{ V DC}$									
4.0	24.0 × 15.0 × 41.5	–	B32676T4405+000	7.0	15.5	19.0	1.0	6.6	1040
4.7	24.0 × 19.0 × 41.5	–	B32676T4475+000	8.0	13.2	18.0	1.0	6.6	780
8.2	20.0 × 39.5 × 42.0	10.2	B32676G4825+000	13.5	7.8	9.0	1.0	6.7	640
10.0	20.0 × 39.5 × 42.0	10.2	B32676G4106+000	14.5	6.4	11.0	1.0	6.7	640
13.0	43.0 × 22.0 × 41.5	20.3	B32676T4136K000	17.5	5.0	13.0	1.0	6.6	280
15.0	28.0 × 42.5 × 42.0	10.2	B32676G4156+000	20.0	4.4	11.0	1.0	6.8	440
20.0	30.0 × 45.0 × 42.0	20.3	B32676G4206K000	24.0	3.3	13.0	1.0	6.9	400
25.0	33.0 × 48.0 × 42.0	20.3	B32676G4256K000	28.0	2.8	14.0	1.0	7.1	180
$V_{R,85\text{ °C}} = 630\text{ V DC}$, $V_{op,70\text{ °C}} = 800\text{ V DC}$									
2.7	24.0 × 15.0 × 41.5	–	B32676T6275+000	7.0	17.7	20.0	0.8	5.1	1040
3.5	24.0 × 19.0 × 41.5	–	B32676T6355+000	8.0	14.1	19.0	0.8	5.1	780
6.8	20.0 × 39.5 × 42.0	10.2	B32676G6685+000	13.5	7.4	10.0	0.8	5.2	640
7.5	20.0 × 39.5 × 42.0	10.2	B32676G6755+000	14.5	6.6	12.0	0.8	5.2	640
8.2	28.0 × 37.0 × 42.0	10.2	B32676G6825+000	16.0	6.1	11.0	0.8	5.2	440
9.0	43.0 × 22.0 × 41.5	20.3	B32676T6905K000	16.5	5.7	13.0	0.8	5.1	280
10.0	28.0 × 42.5 × 42.0	10.2	B32676G6106+000	18.5	5.1	11.0	0.8	5.2	440
12.0	28.0 × 42.5 × 42.0	10.2	B32676G6126+000	20.0	4.4	12.0	0.8	5.3	440
14.0	30.0 × 45.0 × 42.0	20.3	B32676G6146+000	23.0	3.7	14.0	0.8	5.3	400
15.0	33.0 × 48.0 × 42.0	20.3	B32676G6156+000	25.0	3.5	14.0	0.8	5.4	180

MOQ = Minimum Order Quantity, consisting of 4 packing units.
Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code:

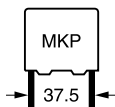
K = ±10%

J = ±5%

1) Capacitance value measured at 1 kHz

2) Max. ripple current I_{RMS} at 70 °C at 10 kHz for a $\Delta T \leq 20\text{ °C}$ when $\Delta ESR_{typ} \leq \pm 5\%$

3) ESL value measured at resonance frequency (see specific graphs of Z vs freq)


B32676
MKP DC link – high power series
Ordering codes and packing units (lead spacing 37.5 mm)

$C_R^{4)}$	Max. dimensions $w \times h \times l$	P_1	Ordering code (composition see below)	$I_{RMS,max}^{5)}$ 70 °C 10 kHz A	ESR_{typ} 70 °C 10 kHz mΩ	$ESL_{typ}^{6)}$ nH	$\tan \delta$ 1 kHz 10^{-3}	$\tan \delta$ 10 kHz 10^{-3}	MOQ
μF	mm	mm							pcs.
$V_{R,85\text{ °C}} = 750\text{ V DC}$, $V_{op,70\text{ °C}} = 900\text{ V DC}$									
2.0	24.0 × 15.0 × 41.5	–	B32676T1205+000	6.0	22.7	18.0	0.8	4.6	1040
2.7	24.0 × 19.0 × 41.5	–	B32676T1275+000	7.5	16.7	19.0	0.8	4.6	780
4.7	20.0 × 39.5 × 42.0	10.2	B32676G1475+000	12.0	9.5	10.0	0.8	4.6	640
5.6	20.0 × 39.5 × 42.0	10.2	B32676G1565+000	13.0	8.2	11.0	0.8	4.7	640
6.8	28.0 × 37.0 × 42.0	10.2	B32676G1685+000	15.5	6.7	11.0	0.8	4.7	440
9.0	30.0 × 45.0 × 42.0	20.3	B32676G1905+000	19.5	5.1	12.0	0.8	4.7	440
10.0	30.0 × 45.0 × 42.0	20.3	B32676G1106+000	20.5	4.7	13.0	0.8	4.8	400
12.0	33.0 × 48.0 × 42.0	20.3	B32676G1126+000	23.0	4.0	14.0	0.8	4.8	180
$V_{R,85\text{ °C}} = 875\text{ V DC}$, $V_{op,70\text{ °C}} = 1050\text{ V DC}$									
1.5	24.0 × 15.0 × 41.5	–	B32676T8155+000	5.5	26.2	18.0	0.7	4.1	1040
2.0	24.0 × 19.0 × 41.5	–	B32676T8205+000	7.0	19.6	19.0	0.7	4.1	780
3.3	20.0 × 39.5 × 42.0	10.2	B32676G8335+000	10.5	12.0	9.0	0.7	4.1	640
4.0	20.0 × 39.5 × 42.0	10.2	B32676G8405+000	12.0	9.9	11.0	0.7	4.1	640
4.7	28.0 × 37.0 × 42.0	10.2	B32676G8475+000	13.5	8.6	10.0	0.7	4.1	440
6.8	28.0 × 42.5 × 42.0	10.2	B32676G8685+000	17.0	6.0	12.0	0.7	4.2	440
7.5	30.0 × 45.0 × 42.0	20.3	B32676G8755+000	19.0	5.4	13.0	0.7	4.2	400
10.0	33.0 × 48.0 × 42.0	20.3	B32676G8106K000	22.5	4.3	14.0	0.7	4.3	180

MOQ = Minimum Order Quantity, consisting of 4 packing units.
Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code:

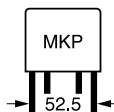
K = ±10%

J = ±5%

4) Capacitance value measured at 1 kHz

5) Max. ripple current I_{RMS} at 70 °C at 10 kHz for a $\Delta T \leq 20\text{ °C}$ when $\Delta ESR_{typ} \leq \pm 5\%$

6) ESL value measured at resonance frequency (see specific graphs of Z vs freq)


Ordering codes and packing units (lead spacing 52.5 mm)

$C_R^{1)}$	Max. dimensions $w \times h \times l$	P_1	Ordering code (composition see below)	$I_{RMS,max}^{2)}$ 70 °C 10 kHz A	ESR_{typ} 70 °C 10 kHz mΩ	$ESL_{typ}^{3)}$ nH	$\tan \delta$ 1 kHz 10^{-3}	$\tan \delta$ 10 kHz 10^{-3}	MOQ
μF	mm	mm							pcs.
$V_{R,85\text{ °C}} = 300\text{ V DC}$, $V_{op,70\text{ °C}} = 450\text{ V DC}$									
30.0	43.0 × 24.0 × 57.5	20.3	B32678T3306K000	22.5	3.9	13.0	1.5	11.8	420
40.0	30.0 × 45.0 × 57.5	20.3	B32678G3406+000	28.0	3.0	12.0	1.5	12.3	280
47.0	35.0 × 50.0 × 57.5	20.3	B32678G3476+000	33.0	2.6	13.0	1.5	12.5	108
60.0	35.0 × 50.0 × 57.5	20.3	B32678G3606K000	37.0	2.1	15.0	1.6	12.9	108
80.0	45.0 × 57.0 × 57.5	20.3	B32678G3806+000	47.0	1.6	18.0	1.6	13.5	140
80.0	130.0 × 24.0 × 57.5	20.3	B32678J3806K000	51.0	1.4	4.0	1.5	11.7	80
100.0	60.0 × 45.0 × 57.5	20.3	B32678G3107+000	48.0	1.4	19.0	1.6	13.5	200
270.0	130.0 × 58.0 × 57.5	20.3	B32678J3277K000	108.0	0.5	6.0	1.6	13.8	40
$V_{R,85\text{ °C}} = 450\text{ V DC}$, $V_{op,70\text{ °C}} = 630\text{ V DC}$									
20.0	43.0 × 24.0 × 57.5	20.3	B32678T4206K000	20.0	4.9	13.0	1.3	9.8	420
30.0	35.0 × 50.0 × 57.5	20.3	B32678G4306+000	28.0	3.2	14.0	1.3	9.9	108
35.0	35.0 × 50.0 × 57.5	20.3	B32678G4356+000	31.5	2.8	14.0	1.3	10.0	108
40.0	35.0 × 50.0 × 57.5	20.3	B32678G4406K000	34.0	2.5	15.0	1.3	10.2	108
60.0	45.0 × 57.0 × 57.5	20.3	B32678G4606+000	45.0	1.8	18.0	1.4	11.2	140
60.0	130.0 × 24.0 × 57.5	20.3	B32678J4606K000	49.5	1.6	4.0	1.2	9.5	80
65.0	60.0 × 45.0 × 57.5	20.3	B32678G4656+000	48.0	1.6	19.0	1.3	10.6	200
180.0	130.0 × 58.0 × 57.5	20.3	B32678J4187K000	97.5	0.6	6.0	1.4	11.2	40
$V_{R,85\text{ °C}} = 630\text{ V DC}$, $V_{op,70\text{ °C}} = 800\text{ V DC}$									
13.0	43.0 × 24.0 × 57.5	20.3	B32678T6136K000	18.0	5.9	13.0	1.1	7.9	420
20.0	35.0 × 50.0 × 57.5	20.3	B32678G6206+000	26.5	4.0	13.0	1.1	8.2	108
25.0	35.0 × 50.0 × 57.5	20.3	B32678G6256+000	29.5	3.3	15.0	1.1	8.3	108
38.0	130.0 × 24.0 × 57.5	20.3	B32678J6386K000	43.5	2.1	4.0	1.1	7.9	80
40.0	45.0 × 57.0 × 57.5	20.3	B32678G6406+000	41.0	2.1	18.0	1.2	8.8	140
45.0	60.0 × 45.0 × 57.5	20.3	B32678G6456+000	43.0	1.9	19.0	1.2	8.7	200
120.0	130.0 × 58.0 × 57.5	20.3	B32678J6127K000	90.0	0.7	6.0	1.2	8.8	40

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

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code:

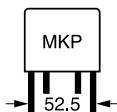
K = ±10%

J = ±5%

1) Capacitance value measured at 1 kHz

2) Max. ripple current I_{RMS} at 70 °C at 10 kHz for a $\Delta T \leq 20\text{ °C}$ when $\Delta ESR_{typ} \leq \pm 5\%$

3) ESL value measured at resonance frequency (see specific graphs of Z vs freq)


B32678
MKP DC link – high power series
Ordering codes and packing units (lead spacing 52.5 mm)

$C_R^{4)}$	Max. dimensions $w \times h \times l$	P_1	Ordering code (composition see below)	$I_{RMS,max}^{5)}$ 70 °C 10 kHz A	ESR_{typ} 70 °C 10 kHz mΩ	$ESL_{typ}^{6)}$ nH	$\tan \delta$ 1 kHz 10^{-3}	$\tan \delta$ 10 kHz 10^{-3}	MOQ
μF	mm	mm							pcs.
$V_{R,85\text{ °C}} = 750\text{ V DC}, V_{op,70\text{ °C}} = 900\text{ V DC}$									
9.0	43.0 × 24.0 × 57.5	20.3	B32678T1905K000	16.5	7.2	13.0	1.0	6.8	420
15.0	30.0 × 45.0 × 57.5	20.3	B32678G1156K000	23.0	4.5	14.0	1.0	7.0	280
20.0	35.0 × 50.0 × 57.5	20.3	B32678G1206K000	28.0	3.5	15.0	1.0	7.2	108
28.0	45.0 × 57.0 × 57.5	20.3	B32678G1286+000	37.5	2.5	18.0	1.0	7.4	140
30.0	60.0 × 45.0 × 57.5	20.3	B32678G1306+000	39.5	2.4	19.0	1.0	7.3	200
30.0	130.0 × 24.0 × 57.5	20.3	B32678J1306K000	40.5	2.3	4.0	1.0	6.8	80
85.0	130.0 × 58.0 × 57.5	20.3	B32678J1856K000	82.5	0.9	6.0	1.0	7.4	40
$V_{R,85\text{ °C}} = 875\text{ V DC}, V_{op,70\text{ °C}} = 1050\text{ V DC}$									
7.0	43.0 × 24.0 × 57.5	20.3	B32678T8705K000	15.5	8.2	13.0	0.9	6.0	420
15.0	35.0 × 50.0 × 57.5	20.3	B32678G8156K000	26.5	4.0	15.0	0.9	6.3	108
22.0	45.0 × 57.0 × 57.5	20.3	B32678G8226+000	35.0	2.9	17.0	1.0	6.5	140
22.0	130.0 × 24.0 × 57.5	20.3	B32678J8226K000	39.0	2.6	5.0	0.9	6.0	80
24.0	60.0 × 45.0 × 57.5	20.3	B32678G8246+000	38.0	2.6	19.0	0.9	6.4	200
65.0	130.0 × 58.0 × 57.5	20.3	B32678J8656K000	78.0	1.0	6.0	1.0	6.5	40

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

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code:

K = ±10%

J = ±5%

4) Capacitance value measured at 1 kHz

 5) Max. ripple current I_{RMS} at 70 °C at 10 kHz for a $\Delta T \leq 20\text{ °C}$ when $\Delta ESR_{typ} \leq \pm 5\%$

6) ESL value measured at resonance frequency (see specific graphs of Z vs freq)


Technical data

Reference standard: IEC 61071. All data given at T = 20 °C, unless otherwise specified.

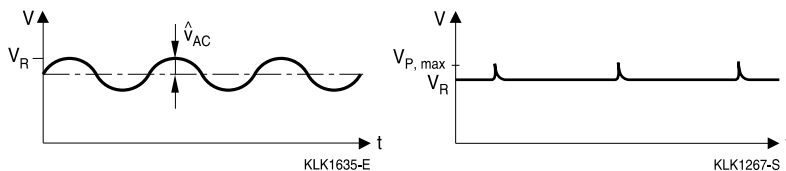
Operating temperature range (case)	Max. operating temperature, T _{op,max} +105 °C Upper category temperature T _{max} +105 °C Lower category temperature T _{min} -40 °C
Insulation Resistance R _{ins} given as time constant $\tau = C_R \cdot R_{ins}$, rel. humidity ≤ 65% (minimum as-delivered values)	$\tau > 10000$ s (after 1 min) For V _R ≥ 500 V measured at 500 V For V _R < 500 V measured at V _R
DC voltage test between terminals (10 s)	1.5 · V _R
Voltage test terminal to case (10 s)	2110 V AC, 50 Hz
Pulse Handling Capability (V/μs)	I _P (A) / C (μF)
Damp heat test Limit values after damp heat test	56 days/40 °C/93% relative humidity Capacitance change $\Delta C/C$ ≤ 5% Dissipation factor change $\Delta \tan \delta$ ≤ 0.005 (at 1 kHz) Insulation resistance R _{ins} ≥ 50% of minimum as-delivered values
Reliability: Failure rate λ Service life t _{SL}	1 fit (≤ 1 · 10 ⁻⁹ /h) at 0.5 · V _R , 40 °C 200 000 h at V _R , 85 °C For conversion to other operating conditions and temperatures, refer to chapter "Quality, 2 Reliability".
V _R (V DC)	300 450 630 750 875
Continuous operation voltage V _{op} (V DC) at 70 °C	450 630 800 900 1050
Continuous operation voltage V _{op} (V DC) at 85 °C	300 450 630 750 875
For temperatures between 85 °C and 100 °C	1.2%/°C of V _{op} de-rating compared to V _{op} at 85 °C



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MKP DC link – high power series

Typical waveforms



Restrictions:

V_R : Maximum operating peak voltage of either polarity but of a non-reversing waveform, for which the capacitor has been designed for continuous operation.

$$\hat{u}_{AC} \leq 0.2 \cdot V_R$$

$V_{p, max}$:

Overvoltage	Maximum duration within one day	Observation
$1.1 \cdot V_R$	30% of on-load duration	System regulation
$1.15 \cdot V_R$	30 min.	System regulation
$1.2 \cdot V_R$	5 min.	System regulation
$1.3 \cdot V_R$	1 min.	System regulation

NOTE 1 An overvoltage equal to $1.5 \cdot V_R$ for 30 ms is permitted 1000 times during the life of the capacitor.

The amplitudes of the overvoltages that may be tolerated without significant reduction in the life time of the capacitor depend on their duration, the number of application and the capacitor temperature.

In addition these values assume that the overvoltages may appear when the internal temperature of the capacitor is less than 0 °C but within the temperature category.

NOTE 2 The average applied voltage must not be higher than the specified voltage.

Pulse handling capability

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

Note:

The values of dV/dt and k_0 provided below must not be exceeded in order to avoid damaging the capacitor. These parameters are given for isolated pulses in such a way that the heat generated by one pulse will be completely dissipated before applying the next pulse. For a train of pulses, please refer to the curves of permissible AC voltage-current versus frequency.

dV/dt values

Lead spacing	27.5 mm					37.5 mm					52.5 mm				
Type	B32674					B32676					B32678				
V_R (V DC)	300	450	630	750	875	300	450	630	750	875	300	450	630	750	875
dV/dt in V/μs	40	75	100	125	150	22	54	73	85	100	15	35	50	60	70

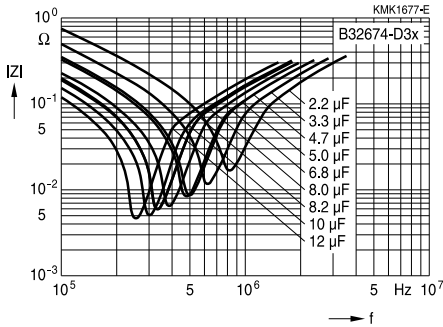


Characteristics curves

Additional technical information can be found under "Design support" on www.epcos.com

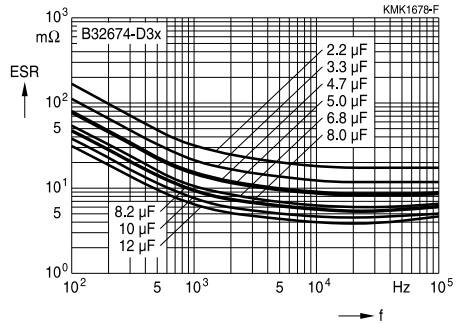
Impedance Z versus frequency f
(typical values)

Lead spacing 27.5 mm / B32674D3x / 300 V DC



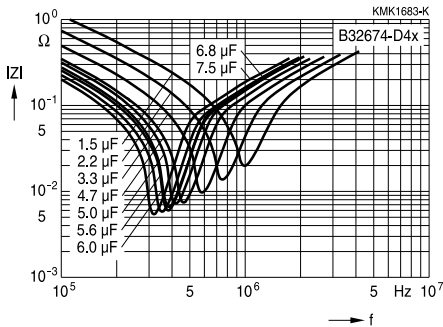
ESR versus frequency f
(typical values)

Lead spacing 27.5 mm / B32674D3x / 300 V DC



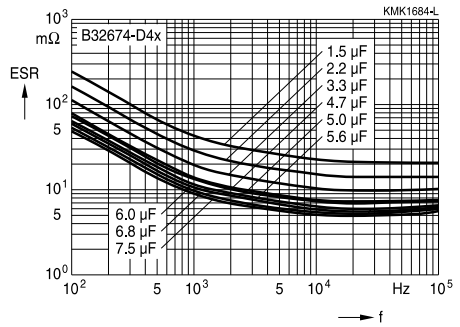
Impedance Z versus frequency f
(typical values)

Lead spacing 27.5 mm / B32674D4x / 450 V DC



ESR versus frequency f
(typical values)

Lead spacing 27.5 mm / B32674D4x / 450 V DC





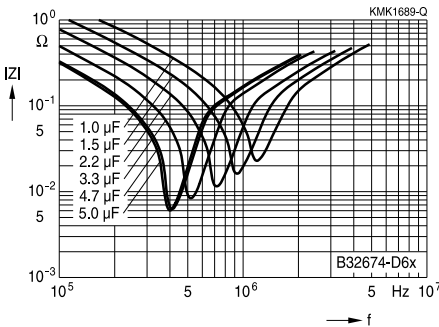
B32674 ... B32678

MKP DC link – high power series

Characteristics curves

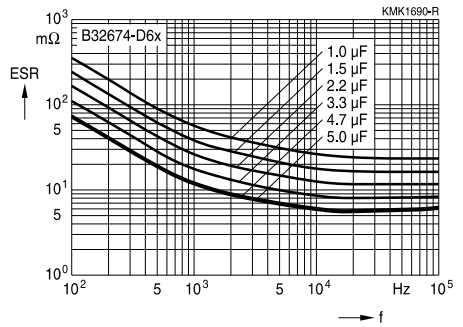
Impedance Z versus frequency f
(typical values)

**Lead spacing 27.5 mm / B32674D6x /
630 V DC**



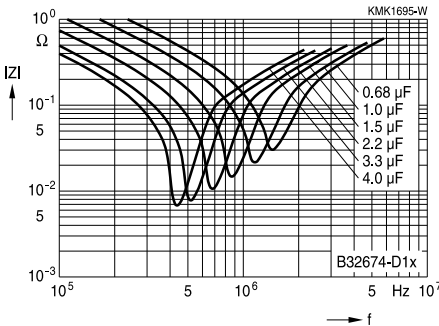
ESR versus frequency f
(typical values)

**Lead spacing 27.5 mm / B32674D6x /
630 V DC**



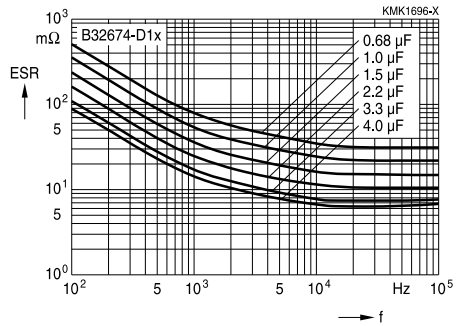
Impedance Z versus frequency f
(typical values)

**Lead spacing 27.5 mm / B32674D1x /
750 V DC**



ESR versus frequency f
(typical values)

**Lead spacing 27.5 mm / B32674D1x /
750 V DC**

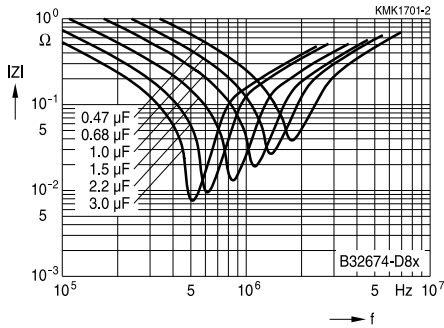




Characteristics curves

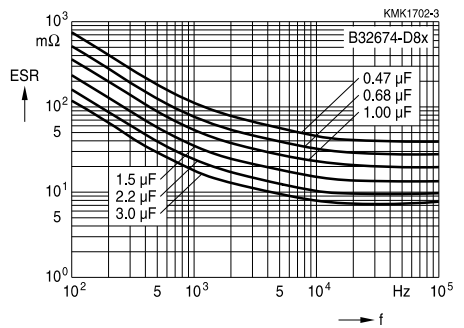
Impedance Z versus frequency f
(typical values)

Lead spacing 27.5 mm / B32674D8x / 875 V DC



ESR versus frequency f
(typical values)

Lead spacing 27.5 mm / B32674D8x / 875 VDC





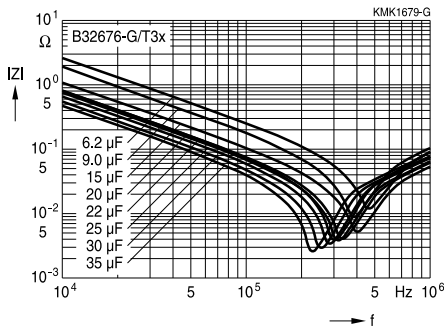
B32674 ... B32678

MKP DC link – high power series

Characteristics curves

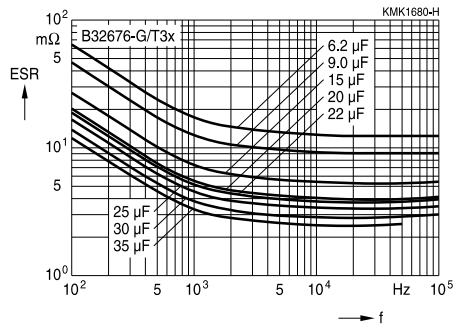
Impedance Z versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T3x / 300 V DC



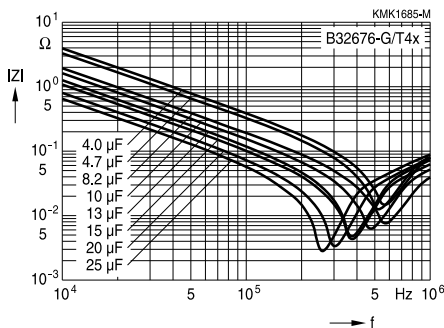
ESR versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T3x / 300 V DC



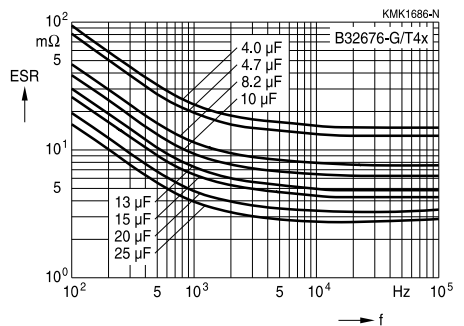
Impedance Z versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T4x / 450 V DC



ESR versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T4x / 450 V DC

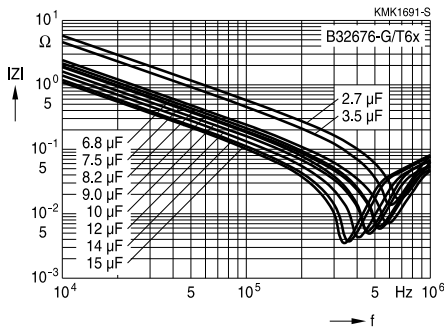




Characteristics curves

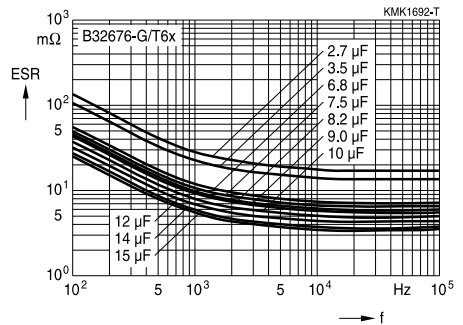
Impedance Z versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T6x / 630 V DC



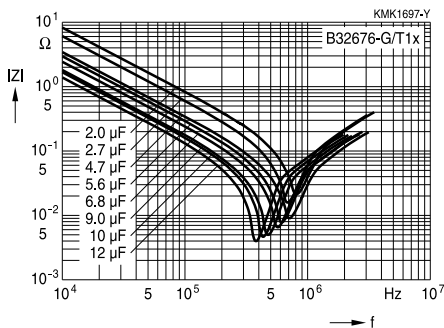
ESR versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T6x / 630 V DC



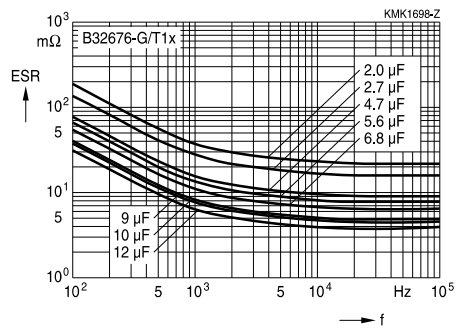
Impedance Z versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T1x / 750 V DC



ESR versus frequency f
(typical values)

Lead spacing 37.5 mm / B32676G/T1x / 750 V DC





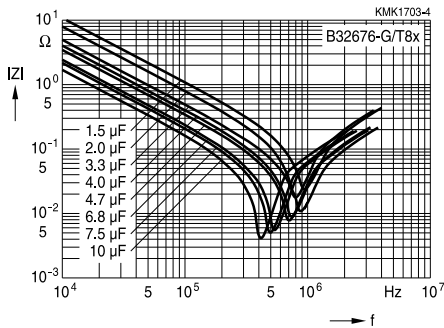
B32674 ... B32678

MKP DC link – high power series

Characteristics curves

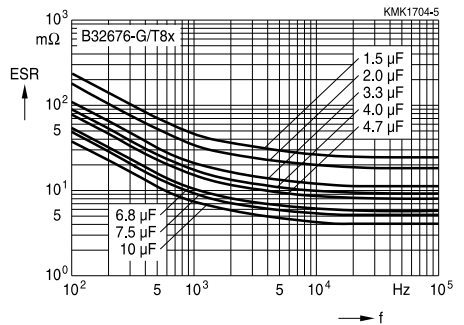
Impedance Z versus frequency f
(typical values)

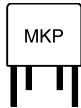
**Lead spacing 37.5 mm / B32676G/T8x /
875 V DC**

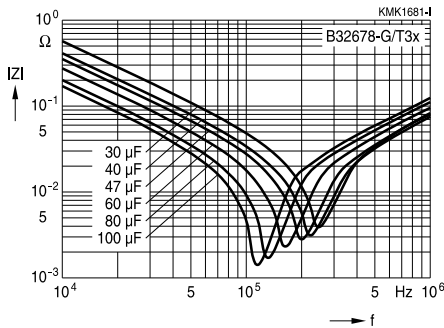


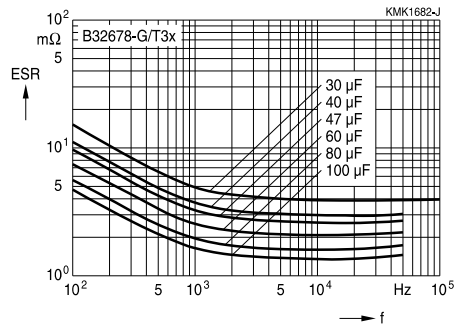
ESR versus frequency f
(typical values)

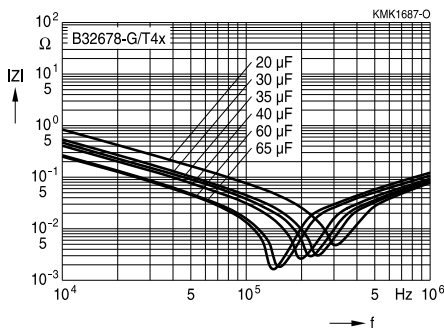
**Lead spacing 37.5 mm / B32676G/T8x /
875 V DC**

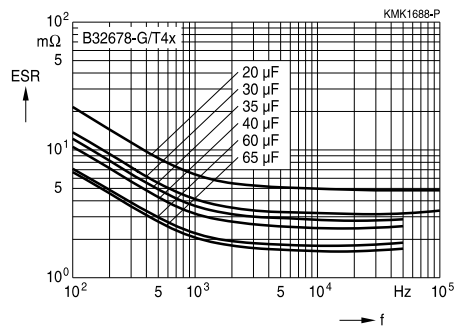



Characteristics curves
Impedance Z versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678G/T3x / 300 V DC

ESR versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678G/T3x / 300 V DC

Impedance Z versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678G/T4x / 450 V DC

ESR versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678G/T4x / 450 V DC




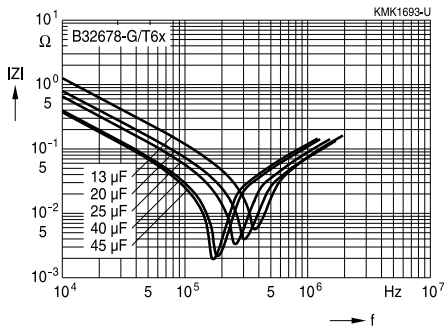
B32674 ... B32678

MKP DC link – high power series

Characteristics curves

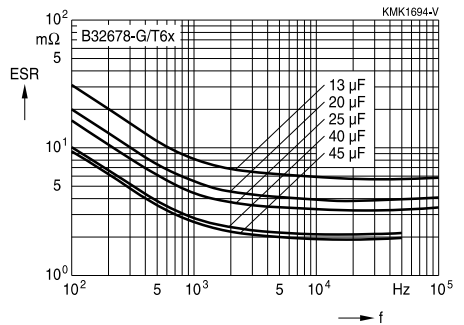
Impedance Z versus frequency f
(typical values)

Lead spacing 52.5 mm / B32678G/T6x / 630 V DC



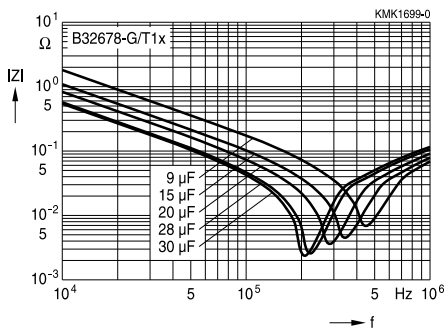
ESR versus frequency f
(typical values)

Lead spacing 52.5 mm / B32678G/T6x / 630 V DC



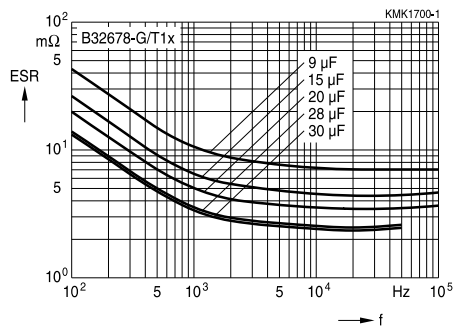
Impedance Z versus frequency f
(typical values)

Lead spacing 52.5 mm / B32678G/T1x / 750 V DC

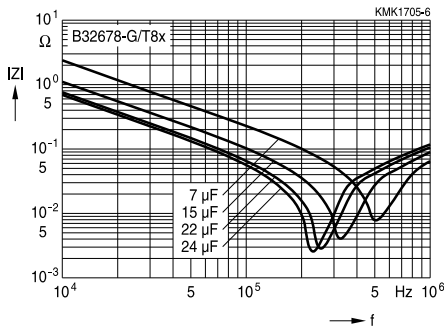


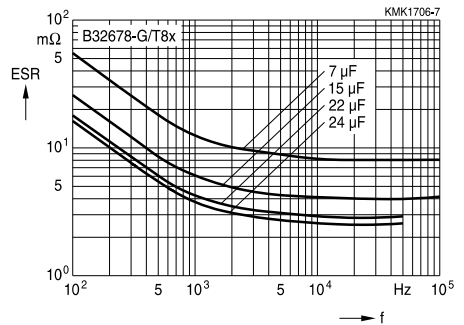
ESR versus frequency f
(typical values)

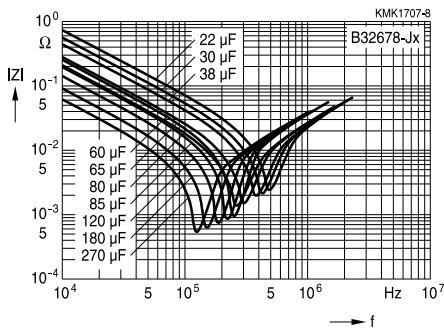
Lead spacing 52.5 mm / B32678G/T1x / 750 V DC

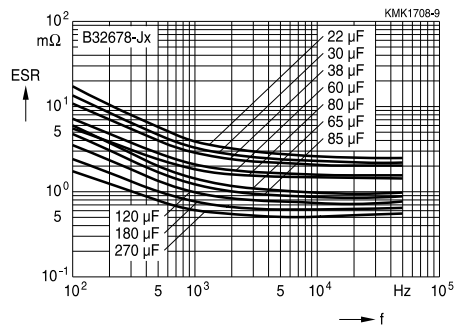



Characteristics curves
Impedance Z versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678G/T8x / 875 V DC

ESR versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678G/T8x / 875 V DC

Impedance Z versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678Jx / 300 V DC, 450 V DC, 630 V DC, 750 V DC, 875 V DC

ESR versus frequency f
 (typical values)

Lead spacing 52.5 mm / B32678Jx / 300 V DC, 450 V DC, 630 V DC, 750 V DC, 875 V DC




B32674 ... B32678

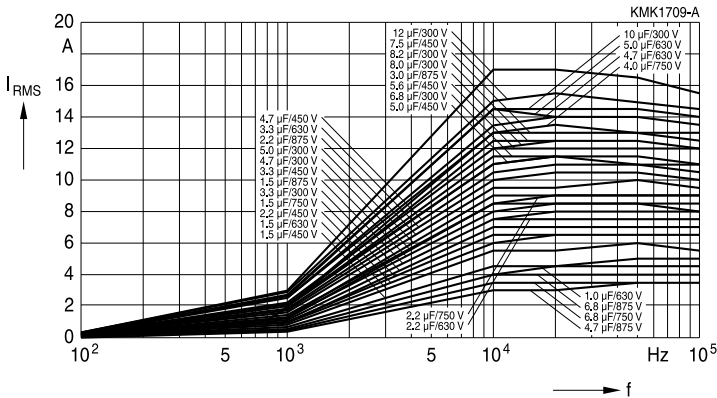
MKP DC link – high power series

Characteristics curves

Permissible current I_{RMS} versus frequency f at 70 °C

Lead spacing 27.5 mm

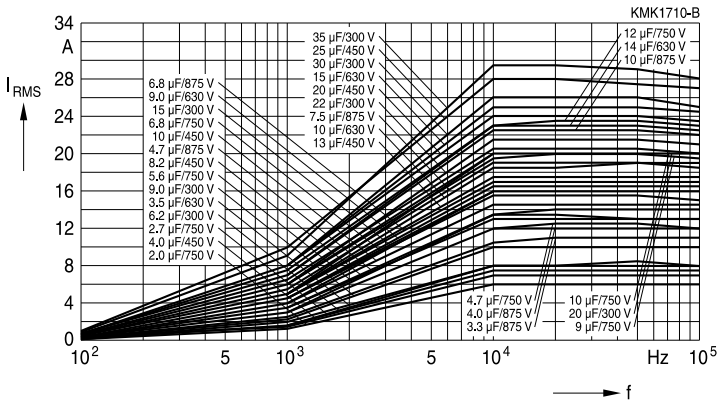
B32674-Dx



Permissible current I_{RMS} versus frequency f at 70 °C

Lead spacing 37.5 mm

B32676-G/Tx





B32674 ... B32678

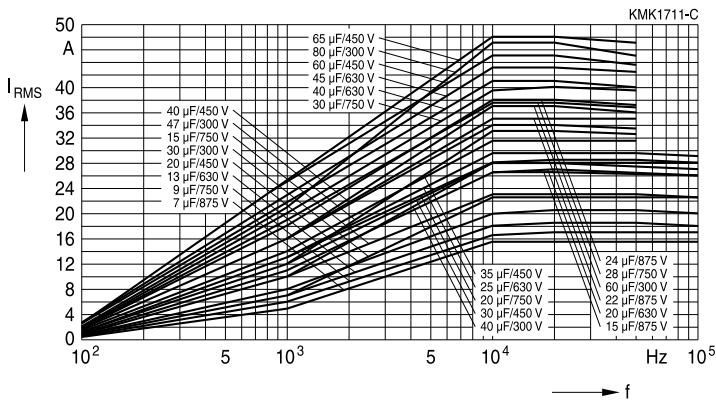
MKP DC link – high power series

Characteristics curves

Permissible current I_{RMS} versus frequency f at 70 °C

Lead spacing 52.5 mm

B32678-G/Tx



Permissible current I_{RMS} versus frequency f at 70 °C

Lead spacing 52.5 mm

B32678-Jx

