

MKP DC link

Series/Type: B32674, B32676, B32678

Date: August 2007

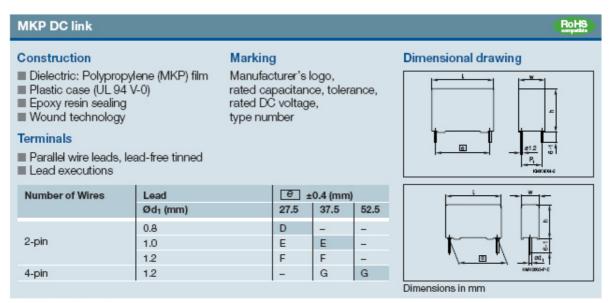
Version: 2

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### **MKP DC link**

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Preferred lead execution.

Char	Characteristics and ordering codes													
CR	Lead spacing	P <sub>1</sub> 4-pin	Max. dimensions wxhxl	Ordering code	dv/dt	ESR ( 2-pin	mΩ), 10	00 kHz	4-pin	I <sub>rms</sub> (A), 100 kHz, 70 2-pin			°C   4-pin	PU (pcs.)
μF	DZ0.4 mm	mm	mm		V/µs	Ø0.8	Ø1.0	Ø1.2	Ø1.2	Ø0.8	Ø1.0	Ø1.2	Ø1.2	
<b>V</b> <sub>R</sub> = 3	V <sub>R</sub> = 300 V DC / V <sub>op</sub> = 450 V DC / V <sub>p</sub> = 450 V DC / V <sub>rms</sub> = 160 V AC													
2.2	27.5	-	11.0 x 19.0 x 31.5	B32674*3225+	40	12.0	11.5	11.0	-	7	7	8	-	320
3.3	27.5	-	12.5 x 21.5 x 31.5	B32674*3335+	40	9.0	8.4	7.8	-	7	8	10	-	280
3.3	37.5	-	12.0 x 22.0 x 42.0	B32676*3335+	22	-	13.1	12.2	-	-	7	9	-	135
4.7	27.5	-	14.0 x 24.5 x 31.5	B32674*3475+	40	7.0	6.5	6.0	-	7	10	12	-	260
4.7	37.5	-	12.0 x 22.0 x 42.0	B32676*3475+	22	-	12.2	11.5	-	-	8	10	-	135
5.0	27.5	-	15.0 x 24.5 x 31.5	B32674*3505+	40	6.8	6.4	5.9	-	7	9	12	-	240
5.6	27.5	-	15.0 x 24.5 x 31.5	B32674*3565+	40	6.6	6.2	5.8	-	7	8	12	-	240
5.6	37.5	-	14.0 x 25.0 x 42.0	B32676*3565+	22	-	11.6	10.8	-	-	9	10	-	115
6.5	37.5	-	14.0 x 25.0 x 42.0	B32676*3655+	22	-	10.8	10	-	-	9	10	-	115
6.8	27.5	-	18.0 x 27.5 x 31.5	B32674*3685+	40	6.4	5.9	5.5	-	7	9	12	-	200
6.8	37.5	-	16.0 x 28.5 x 42.0	B32676*3685+	22	-	10.4	9.4	-	-	9	11	-	100
8.0	27.5	-	16.0 x 32.0 x 31.5	B32674*3805+	40	6.0	5.5	5.0	-	7	9	12	-	220
8.0	37.5	-	16.0 x 28.5 x 42.0	B32676*3805+	22	-	8.5	8.0	-	-	9	11	-	100
8.2	27.5	-	18.0 x 33.0 x 31.5	B32674*3825+	40	6.0	5.2	4.8	-	7	9	12	-	200
10	27.5	-	21.0 x 31.0 x 31.5	B32674*3106+	40	5.3	4.6	4.2	-	7	10	12	-	180
10	37.5	-	18.0 x 32.5 x 42.0	B32676*3106+	22	-	7.7	6.9	-	-	10	12	-	90
12	27.5	-	22.0 x 36.5 x 31.5	B32674*3126+	40	5.2	4.5	4.0	-	7	10	12	-	160
12	37.5	-	18.0 x 32.5 x 42.0	B32676*3126+	22	-	6.8	6.1	-	-	10	12	-	90
15	37.5	10.2	20.0 x 39.5 x 42.0	B32676*3156+	22	-	5.8	5.2	4.0	-	10	12	20	75
20	37.5	10.2	28.0 x 37.0 x 42.0	B32676*3206+	22	-	5	4.3	3.1	-	10	12	22	55
22	37.5	20.3	28.0 x 42.5 x 42.0	B32676*3226+	22	-	4.8	4.1	3.0	-	10	12	22	55
25	37.5	20.3	28.0 x 42.5 x 42.0	B32676*3256+	22	-	4.6	3.8	2.8	-	10	12	22	55
30	37.5	20.3	30.0 x 45.0 x 42.0	B32676*3306+	22	-	4.4	3.7	2.6	-	10	12	22	54
30	52.5	20.3	30.0 x 45.0 x 57.5	B32678*3306+	15	-	-	-	4	-	-	-	22	36
35	37.5	20.3	33.0 x 48.0 x 42.0	B32676*3356+	22	-	-	-	2.4	-	-	-	22	48

Preferred lead execution. Other executions, intermediate capacitance values are available upon request.

+ = Tolerance: J = ±5%, K = ±10%

\* = Diameter: D = Ø0.8 mm, E = Ø1.0 mm, F = Ø1.2 mm, G = Ø1.2 mm, 4-pin Please refer to typical waveforms on page 23. Note: Not for across the line applicational Only unidirectional AC voltage!

PU = Packing unit

FK DC PM August 2007



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២±0.4			P <sub>1</sub> 4-pin	Max. dimensions wxhxl	Ordering code	dv/dt	ESR (i 2-pin	mΩ), 10	00 kHz	4-pin	I <sub>rms</sub> (A 2-pin	A), 100 I	kHz, 70	°C  4-pin	PU (pcs.)
Va		Ė ±0.4	.	mm		V/µs		Ø1.0	Ø1.2	Ø1.2		Ø1.0	Ø1.2	Ø1.2	
35		- '		450 V DC / Vn = 450	0 V DC / V <sub>rms</sub> = 1										l
40	-			•						2.4				22	36
47							_	-	_		_	-	_		36
60	-						_	-		_	_	-	_	_	28
VR = 450 V DC / Vop = 630 V DC / Vp = 675 V DC / Vmms = 275 V AC  1.5   27.5   -							_	_	_		_	-	_		28
1.5   27.5   -     11.0 x 19.0 x 31.5   B32674*4155+   75   7.9   7.5   7.1   -   8   9   10   -	- 1						_	-	-	2.0	-	-	-	22	28
2.2 27.5			V <sub>op</sub> =												
2.2 37.5 - 12.0 x 22.0 x 42.0 832676*4265+ 54 - 14.0 13.1 9 10 - 3 37.5 - 12.0 x 22.0 x 42.0 832676*4305+ 54 - 13.7 12.7 10 111 - 3 3.3 37.5 - 14.0 x 25.0 x 42.0 832676*4305+ 54 - 13.2 12.2 10 111 - 4 37.5 - 14.0 x 25.0 x 42.0 832676*4305+ 54 - 13.2 12.2 10 111 - 4 37.5 - 16.0 x 28.5 x 42.0 832676*4475+ 75 4.8 4.1 3.5 - 9 111 14 - 14.7 37.5 - 16.0 x 28.5 x 42.0 832676*44505+ 54 - 11.5 10.3 12 13 - 15.0 x 27.5 x 13.5 832674*4505+ 55 4 - 11.5 10.3 12 13 - 15.0 x 27.5 x 13.5 832674*4505+ 55 4 - 10.8 9.9 12 14 - 15.0 x 27.5 x 13.5 832674*4505+ 55 4 - 10.8 9.9 12 14 - 15.0 x 27.5 x 13.5 832674*4505+ 55 4 - 10.8 9.9 12 14 - 14.0 x 13.5			-							-				-	320
3			-				6.3	6.0		-	9	10		-	280
3.3   27.5   -   15.0 \times 24.5 \times 31.5   832674*4335+   75   4.7   4.3   4.0   -   9   10   12   -   3.3   37.5   -   14.0 \times 25.0 \times 42.0   832676*4335+   54   -   13.2   12.2   -   -   10   11   -   4.7   37.5   -   18.0 \times 27.5 \times 42.0   832676*44375+   54   -   12.2   11.1   -   -   11   12   -   4.7   37.5   -   16.0 \times 28.5 \times 42.0   832676*4475+   54   -   11.5   10.3   -   -   12   13   -   5.0   27.5   -   16.0 \times 28.5 \times 42.0   832676*44365+   75   4.8   4.1   3.5   -   9   11   14   -   5.0   37.5   -   16.0 \times 28.5 \times 42.0   832676*4565+   54   -   10.8   9.9   -   -   12   14   -   5.6   27.5   -   18.0 \times 33.0 \times 31.5   832674*4665+   75   4.8   4.1   3.5   -   9   12   14   -   5.6   27.5   -   18.0 \times 33.0 \times 31.5   832674*4665+   75   4.8   4.1   3.5   3.0   -   9   12   14   -   6   27.5   -   21.0 \times 31.0 \times 31.5   832674*4665+   75   4.1   3.5   3.0   -   9   12   14   -   6   27.5   -   21.0 \times 31.0 \times 31.5   832674*4665+   75   4.1   3.5   3.0   -   9   12   14   -   6   27.5   -   22.0 \times 36.5 \times 31.5   832674*4665+   75   3.8   3.3   2.8   -   9   12   14   -   7.5   27.5   -   22.0 \times 36.5 \times 31.5   832674*4665+   75   3.8   3.3   2.8   -   9   12   14   -   7.5   27.5   -   22.0 \times 36.5 \times 31.5   832674*4665+   54   -   8.6   7.7   -   -   12   14   -   7.5   27.5   10.2   20.0 \times 39.5 \times 42.0   832676*4865+   54   -   8.6   7.7   -   -   12   14   -   7.5   37.5   10.2   20.0 \times 39.5 \times 42.0   832676*4966+   54   -   8.6   7.7   -   -   12   14   -   7.5   37.5   10.2   20.0 \times 39.5 \times 42.0   832676*4966+   54   -   8.6   7.7   -   -   12   14   29   20   37.5   20.3   30.0 \times 45.0 \times 57.5   832678*4266+   54   -   13.3   1.8   -   12   14   29   21   37.5   20.3   30.0 \times 45.0 \times 57.5   832678*4266+   35   -   -   22   -   -   29   22   37.5   20.3   35.0 \times 50.0 \times 57.5   832678*4266+   35   -   -   1.2   1.4   -   -   29   23   37.5	2.2	37.5	-	12.0 x 22.0 x 42.0	B32676*4225+	54	-	14.0	13.1	-	-	9	10	-	135
3.3    37.5	-		-	12.0 x 22.0 x 42.0		54		13.7	12.7	-	-	10	11	-	135
4 37.5 - 14.0 x 25.0 x 42.0 B32676*4405+ 54 - 12.2 11.1 11 12 - 14.7 27.5 - 18.0 x 27.5 x 31.5 B32674*4475+ 75 4.8 4.1 3.5 - 9 11 14 - 15.0 27.5 - 16.0 x 28.5 x 42.0 B32676*4475+ 54 - 11.5 10.3 12 13 - 15.0 27.5 - 16.0 x 28.5 x 42.0 B32676*4505+ 54 - 10.8 9.9 12 14 - 5.6 27.5 - 18.0 x 33.0 x 31.5 B32674*4565+ 75 4.2 3.6 3.1 - 9 12 14 - 5.6 37.5 - 16.0 x 28.5 x 42.0 B32676*4565+ 54 - 10.8 9.9 12 14 - 5.6 37.5 - 16.0 x 28.5 x 42.0 B32676*4565+ 54 - 10.2 9.5 12 14 - 6.8 27.5 - 21.0 x 31.0 x 31.5 B32674*4665+ 75 4.2 3.6 3.1 - 9 12 14 - 6.8 27.5 - 21.0 x 31.0 x 31.5 B32674*4665+ 75 4.2 3.6 3.1 - 9 12 14 - 6.8 37.5 - 18.0 x 32.5 x 42.0 B32676*4665+ 54 - 10.2 9.5 12 14 - 6.8 37.5 - 18.0 x 32.5 x 42.0 B32676*4665+ 54 - 10.2 9.5 12 14 - 6.8 37.5 - 18.0 x 32.5 x 42.0 B32676*4685+ 75 3.8 3.3 2.8 - 9 12 14 - 6.8 37.5 - 18.0 x 32.5 x 42.0 B32676*4685+ 54 - 8.6 7.7 12 14 - 6.8 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4825+ 75 3.7 3.2 2.8 - 9 12 14 - 24 10 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4106+ 54 - 6.0 5.3 2.2 - 12 14 27 15 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4106+ 54 - 6.0 5.3 2.2 - 12 14 27 15 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4206+ 54 - 6.0 5.3 2.2 - 12 14 22 14 29 15 37.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 2 2.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 2 2.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 2 29 25 5.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 12.2 -	3.3	27.5	-	15.0 x 24.5 x 31.5	B32674*4335+	75	4.7	4.3	4.0	-	9	10	12	-	240
4.7   27.5   -   18.0 x 27.5 x 31.5   B32674'4476+   75   4.8   4.1   3.5   -   9   11   14   -   4.7   37.5   -   16.0 x 28.5 x 42.0   B32676'4476+   75   4.8   4.1   3.5   -   9   11   14   -   5.0   27.5   -   16.0 x 28.5 x 42.0   B32674'4505+   75   4.8   4.1   3.5   -   9   11   14   -   5.0   37.5   -   16.0 x 28.5 x 42.0   B32674'4505+   54   -   10.8   9.9   -   -   12   14   -   5.6   27.5   -   18.0 x 33.0 x 31.5   B32674'4565+   75   4.2   3.6   3.1   -   9   12   14   -   5.6   27.5   -   21.0 x 31.0 x 31.5   B32674'4665+   75   4.1   3.5   3.0   -   9   12   14   -   6   27.5   -   21.0 x 31.0 x 31.5   B32674'4665+   75   4.1   3.5   3.0   -   9   12   14   -   6   27.5   -   22.0 x 36.5 x 31.5   B32674'4665+   75   3.8   3.3   2.8   -   9   12   14   -   6   28.3   7.5   -   22.0 x 36.5 x 31.5   B32674'4755+   75   3.8   3.3   2.8   -   9   12   14   -   7.5   27.5   -   22.0 x 36.5 x 31.5   B32674'4755+   75   3.7   3.2   2.8   -   9   12   14   -   8.2   37.5   10.2   20.0 x 39.5 x 42.0   B32676'4826+   54   -     6.0   5.3   2.2   -     12   14   24   10   37.5   10.2   20.0 x 39.5 x 42.0   B32676'4166+   54   -                             20   37.5   10.2   20.0 x 39.5 x 42.0   B32676'4266+	3.3	37.5	-	14.0 x 25.0 x 42.0	B32676*4335+	54	-	13.2	12.2	-	-	10	11	-	115
4.7   37.5   -   16.0 x 28.5 x 42.0   B32676'4476+   54   -   11.5   10.3   -   12   13   -   5.0   27.5   -   16.0 x 28.5 x 42.0   B32676'4505+   54   -   10.8   9.9   -   12   14   -   5.6   37.5   -   16.0 x 28.5 x 42.0   B32676'4505+   54   -   10.8   9.9   -   12   14   -   5.6   37.5   -   18.0 x 33.0 x 31.5   B32674'4565+   75   4.2   3.6   3.1   -   9   12   14   -   6   27.5   -   21.0 x 31.0 x 31.5   B32674'4605+   75   4.1   3.5   3.0   -   9   12   14   -   6   27.5   -   22.0 x 36.5 x 31.5   B32674'4605+   75   3.8   3.3   2.8   -   9   12   14   -   6   8   37.5   -   18.0 x 32.5 x 42.0   B32676'4685+   54   -   10.2   9.5   -   -   12   14   -   6   8   37.5   -   22.0 x 36.5 x 31.5   B32674'4685+   75   3.8   3.3   2.8   -   9   12   14   -   6   8   37.5   -   22.0 x 36.5 x 31.5   B32676'4685+   54   -   8.6   7.7   -   -   12   14   -   6   8   37.5   -   22.0 x 36.5 x 31.5   B32676'474755+   75   3.7   3.2   2.8   -   9   12   14   -   6   2   3   3   3   3   3   3   3   3   3	4	37.5	-	14.0 x 25.0 x 42.0	B32676*4405+	54	-	12.2	11.1	-	-	11	12	-	115
5.0   27.5   -   16.0 x 32.0 x 31.5   B32674'4505+   75   4.8   4.1   3.5   -   9   11   14   -   5.0   37.5   -   16.0 x 28.5 x 42.0   B32676'4505+   54   -   10.8   9.9   -   -   12   14   -   5.6   27.5   -   18.0 x 33.0 x 31.5   B32674'4505+   75   4.2   3.6   3.1   -   9   12   14   -   5.6   37.5   -   16.0 x 28.5 x 42.0   B32676'4505+   54   -   10.2   9.5   -   -   12   14   -   6.8   27.5   -   21.0 x 31.0 x 31.5   B32674'4605+   75   4.1   3.5   3.0   -   9   12   14   -   6.8   27.5   -   22.0 x 36.5 x 31.5   B32674'4605+   75   3.8   3.3   2.8   -   9   12   14   -   6.8   37.5   -   18.0 x 32.5 x 42.0   B32676'4685+   54   -   8.6   7.7   -   -   12   14   -   6.8   37.5   -   22.0 x 36.5 x 31.5   B32674'4755+   75   3.7   3.2   2.8   -   9   12   14   -   6.8   37.5   10.2   20.0 x 39.5 x 42.0   B32676'4106+   54   -   7.2   6.4   3.3   -   12   14   2   6.8   37.5   10.2   20.0 x 39.5 x 42.0   B32676'4106+   54   -   6.0   5.3   2.2   -   12   14   2   6.8   37.5   10.2   20.0 x 39.5 x 42.0   B32676'4106+   54   -   6.0   5.3   2.2   -   12   14   2   6.8   37.5   10.2   20.0 x 39.5 x 42.0   B32676'4206K   54   -   3.3   1.8   -   12   14   2   6.8   37.5   20.3   30.0 x 45.0 x 57.5   B32676'4206K   54   -   3.3   2.6   1.4   -   12   14   2   6.8   37.5   20.3   30.0 x 45.0 x 57.5   B32676'4206K   54   -   -     1.2   -   -   2   6.8   27.5   20.3   30.0 x 45.0 x 57.5   B32676'4206K   54   -   -     1.2   -   -   2   6.8   27.5   20.3   35.0 x 50.0 x 57.5   B32678'4256K   54   -   -     1.2   -   -   2   6.8   37.5   20.3   35.0 x 50.0 x 57.5   B32678'4256K   54   -   -     1.2   -   -     2   6.8   37.5   20.3   35.0 x 50.0 x 57.5   B32678'4256K   54   -   -     1.2   -   -     2   6.8   37.5   20.3   35.0 x 50.0 x 57.5   B32678'4256K   54   -   -     1.2   -   -     2   6.8   37.5   20.3   35.0 x 50.0 x 57.5   B32678'4256K   54   -   -     1.2   -   -     2   6.8   37.5   20.3   35.0 x 50.0 x 57.5   B32678'64565K   54   -   -     1.2   -   -     2   6.8   52.5   20.3   35.0 x 50.0 x 57.5   B32	4.7	27.5	-	18.0 x 27.5 x 31.5	B32674*4475+	75	4.8	4.1	3.5	-	9	11	14	-	200
5.0   37.5   -   16.0 x 28.5 x 42.0   B32676*4505+   54   -   10.8   9.9   -   -   12   14   -   5.6   27.5   -   18.0 x 33.0 x 31.5   B32674*4565+   75   4.2   3.6   3.1   -   9   12   14   -   5.6   37.5   -   16.0 x 28.5 x 42.0   B32676*4565+   54   -   10.2   9.5   -   -   12   14   -   6   27.5   -   21.0 x 31.0 x 31.5   B32674*4605+   75   4.1   3.5   3.0   -   9   12   14   -   6   27.5   -   22.0 x 36.5 x 31.5   B32674*4685+   54   -   8.6   7.7   -   12   14   -   6   27.5   -   22.0 x 36.5 x 31.5   B32674*4685+   54   -   8.6   7.7   -   12   14   -   6   27.5   -   22.0 x 36.5 x 31.5   B32674*4685+   54   -   8.6   7.7   -   12   14   -   7   5   27.5   -   22.0 x 36.5 x 31.5   B32674*4755+   75   3.7   3.2   2.8   -   9   12   14   -   8   2   37.5   10.2   20.0 x 39.5 x 42.0   B32676*4856+   54   -   6.0   5.3   2.2   -   12   14   24   10   37.5   10.2   20.0 x 39.5 x 42.0   B32676*4156+   54   -   6.0   5.3   2.2   -   12   14   27   15   37.5   10.2   20.0 x 39.5 x 42.0   B32676*4206+   54   -   6.0   5.3   2.2   -   12   14   29   20   37.5   20.3   30.0 x 45.0 x 42.0   B32676*4206+   54   -   4.1   3.3   1.8   -   12   14   29   20   52.5   20.3   30.0 x 45.0 x 57.5   B32678*4206+   35   -   -   2.2   -   -   29   25   37.5   20.3   35.0 x 50.0 x 57.5   B32678*4256+   35   -   -   1.2   -   -   29   25   52.5   20.3   35.0 x 50.0 x 57.5   B32678*4356+   35   -   -   1.4   -   -   29   26   52.5   20.3   35.0 x 50.0 x 57.5   B32678*4356+   35   -   -   1.4   -   -   -   29   27   40   52.5   20.3   35.0 x 50.0 x 57.5   B32678*4356+   35   -   -   1.1   -   -   29   28   630 V DC / Vop = 800 V D	4.7	37.5	-	16.0 x 28.5 x 42.0	B32676*4475+	54	-	11.5	10.3	-	-	12	13	-	100
5.6         27.5         -         18.0 x 93.0 x 31.5         B32674*4565+         75         4.2         3.6         3.1         -         9         12         14         -           5.6         37.5         -         16.0 x 28.5 x 42.0         B32676*4565+         54         -         10.2         9.5         -         -         12         14         -           6.8         27.5         -         22.0 x 36.5 x 31.5         B32674*4685+         75         4.1         3.5         3.0         -         9         12         14         -           6.8         37.5         -         18.0 x 32.5 x 42.0         B32676*4685+         75         3.8         3.3         2.8         -         9         12         14         -           7.5         27.5         -         22.0 x 36.5 x 31.5         B32676*4765+         75         3.7         3.2         2.8         -         9         12         14         -           8.2         37.5         10.2         20.0 x 39.5 x 42.0         B32676*4266+         54         -         7.2         6.4         3.3         -         12         14         29           20         35.5         20.3	5.0	27.5	-	16.0 x 32.0 x 31.5	B32674*4505+	75	4.8	4.1	3.5	-	9	11	14	-	220
5.6 37.5 - 16.0 x 28.5 x 42.0 B32676*4565+ 54 - 10.2 9.5 12 14 - 6.8 27.5 - 21.0 x 31.0 x 31.5 B32674*4605+ 75 4.1 3.5 3.0 - 9 12 14 - 6.8 37.5 - 18.0 x 32.5 x 42.0 B32676*4685+ 54 - 8.6 7.7 12 14 - 7.5 27.5 - 22.0 x 36.5 x 31.5 B32674*4685+ 54 - 8.6 7.7 12 14 - 8.2 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4825+ 54 - 7.2 6.4 3.3 - 12 14 24 10 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4825+ 54 - 7.2 6.4 3.3 - 12 14 27 15 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4106+ 54 - 6.0 5.3 2.2 - 12 14 27 15 37.5 10.2 28.0 x 42.5 x 42.0 B32676*4266K 54 - 6.0 5.3 2.2 - 12 14 29 20 37.5 20.3 30.0 x 45.0 x 57.5 B32676*4266K 54 - 3.3 1.8 - 12 14 29 20 52.5 20.3 30.0 x 45.0 x 57.5 B32676*4266K 54 - 3.3 2.6 1.4 - 12 14 29 20 52.5 20.3 30.0 x 45.0 x 57.5 B32676*4266K 54 2 2 2 20 25 52.5 20.3 30.0 x 45.0 x 57.5 B32676*4256K 54 12.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4266+ 35 2 2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4266+ 35 12.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.4 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.4 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.4 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*6405+ 35 11.2 2 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*6405+ 37 12.2 11.5 10 11 2 20 20 x 30.0 x 30.	5.0	37.5	-	16.0 x 28.5 x 42.0	B32676*4505+	54	-	10.8	9.9	-	-	12	14	-	100
68	5.6	27.5	-	18.0 x 33.0 x 31.5	B32674*4565+	75	4.2	3.6	3.1	-	9	12	14	-	200
6.8 27.5 - 22.0 x 96.5 x 31.5 B32674*4685+ 75 3.8 3.3 2.8 - 9 12 14 - 6.8 37.5 - 18.0 x 32.5 x 42.0 B32676*4685+ 54 - 8.6 7.7 12 14 - 7.5 27.5 - 22.0 x 36.5 x 31.5 B32674*4755+ 75 3.7 3.2 2.8 - 9 12 14 - 8.2 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4825+ 54 - 7.2 6.4 3.3 - 12 14 24 10 37.5 10.2 20.0 x 39.5 x 42.0 B32676*4106+ 54 - 6.0 5.3 2.2 - 12 14 27 15 37.5 10.2 28.0 x 42.0 B32676*4166+ 54 - 4.1 3.3 1.8 - 12 14 29 20 37.5 20.3 30.0 x 45.0 x 57.5 B32678*4266+ 54 - 3.3 2.6 1.4 - 12 14 29 20 52.5 20.3 30.0 x 45.0 x 57.5 B32678*4266+ 35 22 22 22 20 25 37.5 20.3 30.0 x 45.0 x 57.5 B32678*4266+ 35 12 2 22 20 25 52.5 20.3 30.0 x 45.0 x 57.5 B32678*4266+ 35 12 2 22 20 25 52.5 20.3 30.0 x 45.0 x 57.5 B32678*4266+ 35 12 2 22 20 20 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4266+ 35 12 2 22 20 20 30 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 12 14 - 29 20 20 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.7 2 29 20 20 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.7 2 29 20 20 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.7 2 29 20 20 20 30 35.0 x 50.0 x 57.5 B32678*4366+ 35 11.7 2 29 20 20 20 30 35.0 x 50.0 x 57.5 B32678*4406K 35 11.7 2 29 20 20 20 30 35.0 x 50.0 x 57.5 B32678*4566+ 35 11.7 2 29 20 20 30 35.0 x 50.0 x 57.5 B32678*4566+ 35 11.7 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5.6	37.5	-	16.0 x 28.5 x 42.0	B32676*4565+	54	-	10.2	9.5	-	-	12	14	-	100
6.8 37.5	6	27.5	-	21.0 x 31.0 x 31.5	B32674*4605+	75	4.1	3.5	3.0	-	9	12	14	-	180
7.5         27.5         —         22.0 x 36.5 x 31.5         B32674*4755+         75         3.7         3.2         2.8         —         9         12         14         —           8.2         37.5         10.2         20.0 x 39.5 x 42.0         B32676*4825+         54         —         7.2         6.4         3.3         —         12         14         24           10         37.5         10.2         28.0 x 42.5 x 42.0         B32676*4166+         54         —         6.0         5.3         2.2         —         12         14         27           15         37.5         10.2         28.0 x 42.5 x 42.0         B32676*4166+         54         —         4.1         3.3         1.8         —         12         14         29           20         37.5         20.3         30.0 x 45.0 x 57.5         B32678*4266+         35         —         —         —         2.2         —         —         —         29           25         52.5         20.3         35.0 x 50.0 x 57.5         B32678*4366+         35         —         —         —         1.7         —         —         29           35         52.5         20.3         35.0 x 50.0	6.8	27.5	-	22.0 x 36.5 x 31.5	B32674*4685+	75	3.8	3.3	2.8	-	9	12	14	-	160
8.2	6.8	37.5	-	18.0 x 32.5 x 42.0	B32676*4685+	54	-	8.6	7.7	-	-	12	14	-	90
10	7.5	27.5	-	22.0 x 36.5 x 31.5	B32674*4755+	75	3.7	3.2	2.8	-	9	12	14	-	160
15	8.2	37.5 1	10.2	20.0 x 39.5 x 42.0	B32676*4825+	54	-	7.2	6.4	3.3	-	12	14	24	75
20	0	37.5 1	10.2	20.0 x 39.5 x 42.0	B32676*4106+	54	-	6.0	5.3	2.2	-	12	14	27	75
20 52.5 20.3 30.0 x 45.0 x 57.5 B32678*4206+ 35 2.2 29 25 37.5 20.3 33.0 x 48.0 x 42.0 B32676*4256K 54 1.2 29 25 52.5 20.3 30.0 x 45.0 x 57.5 B32678*4256+ 35 2 2 29 30 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4306+ 35 1.7 29 35 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4366+ 35 1.4 29 40 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4406K 35 1.4 29 40 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4406K 35 1.2 - 29  VR = 630 V DC / Vop = 800 V DC / Vp = 950 V DC / Vrms = 350 V AC  1 27.5 - 11.0 x 19.0 x 31.5 B32674*6105+ 100 10.5 9.9 9.4 - 7 8 9 - 12 12 - 2 37.5 - 12.5 x 21.5 x 31.5 B32674*6155+ 100 7.7 7.4 7.1 - 9 12 12 - 2 37.5 - 12.0 x 22.0 x 42.0 B32676*6205+ 73 - 12.2 11.5 10 11 - 2 2.2 27.5 - 15.0 x 24.5 x 31.5 B32674*6225+ 100 6.0 5.5 5.0 - 9 12 13 - 2 37.5 - 14.0 x 25.0 x 42.0 B32676*6275+ 73 - 10.5 9.8 10 12 - 3 3.3 27.5 - 16.0 x 32.0 x 31.5 B32674*6335+ 100 5.0 4.5 4.0 - 9 12 14 - 3 3.3 37.5 - 16.0 x 28.5 x 42.0 B32676*6335+ 73 - 9.3 8.5 10 13 - 4 37.5 - 16.0 x 28.5 x 42.0 B32676*6335+ 73 - 9.3 8.5 10 13 - 4 37.5 - 16.0 x 28.5 x 42.0 B32676*6405+ 73 - 72.0 6.4 11 13 - 4 4.7 27.5 - 22.0 x 36.5 x 31.5 B32674*6475+ 100 4.7 4.0 3.4 - 9 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 - 4 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1	5	37.5 1	10.2	28.0 x 42.5 x 42.0	B32676*4156+	54	-	4.1	3.3	1.8	-	12	14	29	55
25	0.0	37.5 2	20.3	30.0 x 45.0 x 42.0	B32676*4206K	54	-	3.3	2.6	1.4	-	12	14	29	54
25	0.0	52.5 2	20.3	30.0 x 45.0 x 57.5	B32678*4206+	35	-	-	-	2.2	-	-	-	29	36
30	5	37.5 2	20.3	33.0 x 48.0 x 42.0	B32676*4256K	54	-	-	-	1.2	-	-	-	29	48
35	5	52.5 2	20.3	30.0 x 45.0 x 57.5	B32678*4256+	35	-	-	-	2	_	-	-	29	36
40 52.5 20.3 35.0 x 50.0 x 57.5 B32678*4406K 35	0	52.5 2	20.3	35.0 x 50.0 x 57.5	B32678*4306+	35	-	-	-	1.7	-	-	-	29	28
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	52.5 2	20.3	35.0 x 50.0 x 57.5	B32678*4356+	35	-	-	-	1.4	-	-	-	29	28
1     27.5     -     11.0 x 19.0 x 31.5     B32674*6105+     100     10.5     9.9     9.4     -     7     8     9     -       1.5     27.5     -     12.5 x 21.5 x 31.5     B32674*6155+     100     7.7     7.4     7.1     -     9     12     12     -       2     37.5     -     12.0 x 22.0 x 42.0     B32674*6225+     100     6.0     5.5     5.0     -     9     12     13     -       2.7     37.5     -     14.0 x 25.0 x 42.0     B32676*6275+     73     -     10.5     9.8     -     -     10     12     -       3.3     27.5     -     16.0 x 32.0 x 31.5     B32674*6335+     100     5.0     4.5     4.0     -     9     12     14     -       3.3     37.5     -     16.0 x 28.5 x 42.0     B32676*6335+     73     -     9.3     8.5     -     -     10     13     -       4     37.5     -     16.0 x 28.5 x 42.0     B32676*6405+     73     -     7.2     6.4     -     -     11     13     -       4.7     27.5     -     22.0 x 36.5 x 31.5     B32674*6475+     100     4.7     4.0     3.4	0	52.5 2	20.3	35.0 x 50.0 x 57.5	B32678*4406K	35	-	-	-	1.2	-	-	-	29	28
1     27.5     -     11.0 x 19.0 x 31.5     B32674*6105+     100     10.5     9.9     9.4     -     7     8     9     -       1.5     27.5     -     12.5 x 21.5 x 31.5     B32674*6155+     100     7.7     7.4     7.1     -     9     12     12     -       2     37.5     -     12.0 x 22.0 x 42.0     B32674*6225+     100     6.0     5.5     5.0     -     9     12     13     -       2.7     37.5     -     14.0 x 25.0 x 42.0     B32676*6275+     73     -     10.5     9.8     -     -     10     12     -       3.3     27.5     -     16.0 x 32.0 x 31.5     B32674*6335+     100     5.0     4.5     4.0     -     9     12     14     -       3.3     37.5     -     16.0 x 28.5 x 42.0     B32676*6335+     73     -     9.3     8.5     -     -     10     13     -       4     37.5     -     16.0 x 28.5 x 42.0     B32676*6405+     73     -     7.2     6.4     -     -     11     13     -       4.7     27.5     -     22.0 x 36.5 x 31.5     B32674*6475+     100     4.7     4.0     3.4	R = 6	30 V DC /	V <sub>op</sub> =	800 V DC / Vn = 95	0 V DC / V <sub>rms</sub> = 3	50 V A	С								
1.5       27.5       -       12.5 x 21.5 x 31.5       B32674*6155+       100       7.7       7.4       7.1       -       9       12       12       -         2       37.5       -       12.0 x 22.0 x 42.0       B32674*6225+       100       6.0       5.5       5.0       -       9       12       13       -         2.7       37.5       -       14.0 x 25.0 x 42.0       B32674*6335+       73       -       10.5       9.8       -       -       10       12       -         3.3       27.5       -       16.0 x 28.5 x 42.0       B32674*6335+       100       5.0       4.5       4.0       -       9       12       14       -         3.3       37.5       -       16.0 x 28.5 x 42.0       B32676*6335+       73       -       9.3       8.5       -       -       10       13       -         4       37.5       -       16.0 x 28.5 x 42.0       B32676*6405+       73       -       7.2       6.4       -       -       11       13       -         4.7       27.5       -       22.0 x 36.5 x 31.5       B32674*6475+       100       4.7       4.0       3.4       -       9 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>9.9</td><td>9.4</td><td>l –</td><td>7</td><td>В</td><td>9</td><td>l –</td><td>320</td></td<>								9.9	9.4	l –	7	В	9	l –	320
2     37.5     -     12.0 x 22.0 x 42.0     B32676°6205+     73     -     12.2     11.5     -     -     10     11     -       2.2     27.5     -     15.0 x 24.5 x 31.5     B32674°6225+     100     6.0     5.5     5.0     -     9     12     13     -       2.7     37.5     -     14.0 x 25.0 x 42.0     B32676°6275+     73     -     10.5     9.8     -     -     10     12     -       3.3     27.5     -     16.0 x 28.5 x 42.0     B32676°6335+     100     5.0     4.5     4.0     -     9     12     14     -       3.3     37.5     -     16.0 x 28.5 x 42.0     B32676°6335+     73     -     9.3     8.5     -     -     10     13     -       4     37.5     -     16.0 x 28.5 x 42.0     B32676°6405+     73     -     7.2     6.4     -     -     11     13     -       4.7     27.5     -     22.0 x 36.5 x 31.5     B32674°6475+     100     4.7     4.0     3.4     -     9     12     14     -       4.7     37.5     -     18.0 x 32.5 x 42.0     B32676°6475+     73     -     5.8     5.1															280
2.2     27.5     -     15.0 x 24.5 x 31.5     B32674*6225+     100     6.0     5.5     5.0     -     9     12     13     -       2.7     37.5     -     14.0 x 25.0 x 42.0     B32676*6275+     73     -     10.5     9.8     -     -     10     12     -       3.3     27.5     -     16.0 x 32.0 x 31.5     B32674*6335+     100     5.0     4.5     4.0     -     9     12     14     -       3.3     37.5     -     16.0 x 28.5 x 42.0     B32676*6335+     73     -     9.3     8.5     -     -     10     13     -       4     37.5     -     16.0 x 28.5 x 42.0     B32676*6405+     73     -     7.2     6.4     -     -     11     13     -       4.7     27.5     -     22.0 x 36.5 x 31.5     B32674*6475+     100     4.7     4.0     3.4     -     9     12     14     -       4.7     37.5     -     18.0 x 32.5 x 42.0     B32676*6475+     73     -     5.8     5.1     -     -     12     14     -															135
2.7     37.5     -     14.0 x 25.0 x 42.0     B32676°6275+     73     -     10.5     9.8     -     -     10     12     -       3.3     27.5     -     16.0 x 32.0 x 31.5     B32674°6335+     100     5.0     4.5     4.0     -     9     12     14     -       3.3     37.5     -     16.0 x 28.5 x 42.0     B32676°6335+     73     -     9.3     8.5     -     -     10     13     -       4     37.5     -     16.0 x 28.5 x 42.0     B32676°6405+     73     -     7.2     6.4     -     -     11     13     -       4.7     27.5     -     22.0 x 36.5 x 31.5     B32674°6475+     100     4.7     4.0     3.4     -     9     12     14     -       4.7     37.5     -     18.0 x 32.5 x 42.0     B32676°6475+     73     -     5.8     5.1     -     -     12     14     -															240
3.3 27.5 - 16.0 x 32.0 x 31.5 B32674*6335+ 100 5.0 4.5 4.0 - 9 12 14 - 3.3 37.5 - 16.0 x 28.5 x 42.0 B32676*6335+ 73 - 9.3 8.5 - 100 13 - 4 37.5 - 16.0 x 28.5 x 42.0 B32676*6405+ 73 - 7.2 6.4 - 11 13 - 4.7 27.5 - 22.0 x 36.5 x 31.5 B32674*6475+ 100 4.7 4.0 3.4 - 9 12 14 - 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 - 12 14 -											_				115
3.3 37.5 - 16.0 x 28.5 x 42.0 B32676*6335+ 73 - 9.3 8.5 10 13 - 4 37.5 - 16.0 x 28.5 x 42.0 B32676*6405+ 73 - 7.2 6.4 11 13 - 4.7 27.5 - 22.0 x 36.5 x 31.5 B32674*6475+ 100 4.7 4.0 3.4 - 9 12 14 - 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 - 12 14 -											a				220
4 37.5 - 16.0 x 28.5 x 42.0 B32676*6405+ 73 - 7.2 6.4 11 13 - 4.7 27.5 - 22.0 x 36.5 x 31.5 B32674*6475+ 100 4.7 4.0 3.4 - 9 12 14 - 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 -	_										_				100
4.7 27.5 - 22.0 x 36.5 x 31.5 B32674*6475+ 100 4.7 4.0 3.4 - 9 12 14 - 4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 -															100
4.7 37.5 - 18.0 x 32.5 x 42.0 B32676*6475+ 73 - 5.8 5.1 12 14 -											0				160
											9				90
5   Z1.5   -   Z2.0 x 50.5 x 51.5   D520/4 0505+   100   4.7   4.0   3.4   -   19     112   114   -											0				
6.8 37.5 10.2 20.0 x 39.5 x 42.0 B32676*6685+ 73 - 4.9 4.2 2.5 - 12 14 22											8				160 75

PU = Packing unit

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Preferred lead execution. Other executions, intermediate capacitance values are available upon request.

+ = Tolerance: J = ±5%, K = ±10%

\* = Diameter: D = Ø0.8 mm, E = Ø1.0 mm, F = Ø1.2 mm, G = Ø1.2 mm, 4-pin Please refer to typical waveforms on page 23. Note: Not for across the line applications! Only unidirectional AC voltage!



# **MKP DC link**

B32674, B32676, B32678

CR	Lead spacing	P <sub>1</sub> 4-pin	Max. dimensions	Ordering code	dv/dt	ESR ( 2-pin	mΩ), 10	00 kHz	4-pin	I <sub>rms</sub> (A), 100 kHz, 70 °C n 2-pin 4-pin			PU (pcs.)	
μF	eg±0.4 mm	mm	mm		V/µs	Ø0.8	Ø10	Ø1.2	4-pin Ø1.2		Ø1.0	012	4-pin Ø1.2	(pcs.
•			1	0.7.00 (7. (			01.0	V1.2	V1.2	20.0	V1.0	V1.2	21.2	
			800 V DC / V <sub>p</sub> = 95											
7.5	37.5	10.2	20.0 x 39.5 x 42.0	B32676*6755+	73	-	4.6	3.9	2.3	-	12	14	27	75
8.2	37.5	10.2	28.0 x 37.0 x 42.0	B32676*6825+	73	-	4.3	3.6	2.1	-	12	14	29	55
10	37.5	20.3	28.0 x 42.5 x 42.0	B32676*6106+	73	-	3.9	3.1	1.9	-	12	14	29	55
12	37.5	20.3	28.0 x 42.5 x 42.0	B32676*6126+	73	-	3.8	3	1.8	-	12	14	29	55
14	37.5	20.3	30.0 x 45.0 x 42.0	B32676*6146+	73	-	3.7	2.9	1.7	-	12	14	29	54
15	37.5	20.3	33.0 x 48.0 x 42.0	B32676*6156+	73	-	-	-	1.6	-	-	-	29	48
15	52.5	20.3	30.0 x 45.0 x 57.5	B32678*6156+	50	-	-	-	2.7	-	-	-	29	36
20	52.5	20.3	35.0 x 50.0 x 57.5	B32678*6206+	50	-	-	-	2	-	-	-	29	28
25	52.5	20.3	35.0 x 50.0 x 57.5	B32678*6256+	50	-	-	-	1.8	-	-	-	29	28
V <sub>R</sub> =	750 V DC	/ V <sub>op</sub> =	900 V DC / Vp = 11	25 V DC / V <sub>rms</sub> =	375 V	AC								
0.68	27.5	_	11.0 x 19.0 x 31.5	B32674*1684+	125	12.0	11.4	10.8	-	7	8	8	-	320
1	27.5	_	12.5 x 21.5 x 31.5	B32674*1105+	125	9.0	8.4	7.8	_	9	9	10	_	280
1.5	27.5	_	14.0 x 24.5 x 31.5	B32674*1155+	125	6.9	6.3	5.8	_	9	12	13	_	260
1.5	37.5	_	12.0 x 22.0 x 42.0	B32676*1155+	85	_	15.2	12.2	_	_	9	11	_	135
2	37.5	_	14.0 x 25.0 x 42.0	B32676*1205+	85	_	12.2	10.9	_	_	10	12	_	115
2.2	27.5	_	18.0 x 27.5 x 31.5	B32674*1225+	125	5.3	4.8	4.4	_	9	12	14	_	200
3.3	27.5	_	21.0 x 31.0 x 31.5	B32674*1335+	125	5.0	4.4	3.9	_	9	12	14	_	180
3.3	37.5	_	18.0 x 32.5 x 42.0	B32676*1335+	85	_	9.6	8.4	_	_	11	14	_	90
4.0	27.5	_	22.0 x 36.5 x 31.5	B32674*1405+	125	4.9	4.1	3.5	_	9	12	14	_	160
4.7	37.5	10.2	20.0 x 39.5 x 42.0	B32676*1475+	85	_	5.7	4.7	3.8	_	12	14	22	75
5.6	37.5	10.2	20.0 x 39.5 x 42.0	B32676*1565+	85	_	5.2	4.2	3.6	_	12	14	24	75
6.8	37.5	20.3	28.0 x 37.0 x 42.0	B32676*1685+	85	_	4.9	4	3.2	_	12	14	28	55
9	37.5	20.3	28.0 x 42.5 x 42.0	B32676*1905+	85	_	4.4	3.3	2.5	_	12	14	29	55
10	37.5	20.3	30.0 x 45.0 x 42.0	B32676*1106+	85	_	4.2	3	2.3	_	12	14	29	54
12	37.5	20.3	33.0 x 48.0 x 42.0	B32676*1126+	85	_	_	_	2.0	_	_	_	29	48
15	52.5	20.3	30.0 x 45.0 x 57.5	B32678*1156K	60	_	_	_	2.7	_	_	_	29	36
20	52.5	20.3	35.0 x 50.0 x 57.5	B32678*1206K	60	_	_	_	1.9	_	_	_	29	28
						1		<b>'</b>	1		_	1		
		/ Vop =	1050 V DC / V <sub>p</sub> = 1											
	27.5	-	11.0 x 19.0 x 31.5	B32674*8474+	150	14.0	13.5	13.0	-	7	7	7	-	320
0.68	27.5	-	11.0 x 21.0 x 31.5	B32674*8684+	150	11.5	11.0	10.5	-	8	8	8	-	320
1	27.5	-	13.5 x 23.0 x 31.5	B32674*8105+	150	8.4	8.0	7.6	-	9	9	10	-	260
1	37.5	-	12.0 x 22.0 x 42.0	B32676*8105+	100	-	14.1	13.3	-	-	10	11	-	135
1.5	27.5	-	18.0 x 27.5 x 31.5	B32674*8155+	150	5.5	5.0	4.6	-	9	12	14	-	200
1.5	37.5	-	14.0 x 25.0 x 42.0	B32676*8155+	100	-	12.2	11.1	-	-	10	11	-	115
2.2	27.5	-	18.0 x 33.0 x 31.5	B32674*8225+	150	5.3	4.8	4.4	-	9	12	14	-	200
2.2	37.5	-	16.0 x 28.5 x 42.0	B32676*8225+	100	-	10.5	9.5	-	-	11	12	-	100
3	27.5	-	22.0 x 36.5 x 31.5	B32674*8305+	150	4.5	4.0	3.6	-	9	12	14	-	160
3.3	37.5	10.2	20.0 x 39.5 x 42.0	B32676*8335+	100	-	6.5	5.5	4.8	-	12	14	25	75
4	37.5	10.2	20.0 x 39.5 x 42.0	B32676*8405+	100	-	5.8	4.7	4	-	12	14	26	75
4.7	37.5	20.3	28.0 x 37.0 x 42.0	B32676*8475+	100	-	5.1	4.1	3.3	-	12	14	27	55
6.8	37.5	20.3	28.0 x 42.5 x 42.0	B32676*8685+	100	-	4.9	3.7	3.1	-	12	14	28	55
7.5	37.5	20.3	30.0 x 45.0 x 42.0	B32676*8755+	100	-	4.7	3.5	2.9	-	12	14	29	54
10	37.5	20.3	33.0 x 48.0 x 42.0	B32676*8106K	100	-	-	-	2.2	-	-	-	29	48
10	52.5	20.3	30.0 x 45.0 x 57.5	B32678*8106+	70	-	-	-	2.5	-	-	-	29	36
15	52.5	20.3	35.0 x 50.0 x 57.5	B32678*8156K	70	_	_	_	2	_	_	_	29	28

PU = Packing unit

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Please refer to typical waveforms on page 23. Note: Not for across the line applications! Only unidirectional AC voltage!

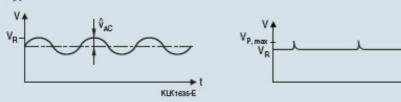


# **MKP DC link**

B32674, B32676, B32678

Technical data									
Reference standards IEC 61071 / IEC 60068 / IEC	60384-16								
Maximum operating temperature Top,max	100℃								
Climatic category	40/100/56								
Dissipation factor tan δ (in 10-3) at 1 kHz and 20 °C (upper limit values)	≤1								
Insulation resistance R <sub>ins</sub> or time constant τ = C <sub>R</sub> · R <sub>ins</sub> at 20 °C, rel. humidity ≤ 65% (minimum as-delivered values)	30 000 s								
DC test voltage between terminations (to IEC 61017)	1.5 · V <sub>R</sub> , 1	10 s / 1.	65 · V <sub>R</sub> , 2	? s					
Continuous operation voltage (Vop)	70 °C	450	630	800	900	1050			
Nominal operation voltage (V <sub>R</sub> )	85 °C	300	450	630	750	875			
Maximum peak voltage (V <sub>P,max</sub> )		450	675	950	1125	1300			
Category voltage V <sub>C</sub>	T <sub>A</sub> (°C)		DC volta	age dera	ting	AC voltage derating			
(continuous operation with V <sub>DC</sub> or V <sub>AC</sub> at f≤1 kHz)	T <sub>A</sub> ≤ 85 85 < T <sub>A</sub> ≤ 100		V <sub>C</sub> = V <sub>R</sub> V <sub>C</sub> = V <sub>R</sub> · (165 – T <sub>A</sub> ) /			Vc,rms = VR,ms Vc,rms = VR,ms · (165–TA) / 80			
Operating voltage V <sub>op</sub> for short operating	T <sub>A</sub> (°C)		DC voltage (max. hou			AC voltage (max. hours)			
periods (V <sub>DC</sub> or V <sub>AC</sub> at f ≤ 1kHz)	T <sub>A</sub> $\leq$ 85   V <sub>op</sub> = 1.25 · V <sub>c</sub> (2000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (2000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000 h)   V <sub>op</sub> = 1.0 · V <sub>c,rms</sub> (1000					Vop = 1.0 · Vc,rms (2000 h) Vop = 1.0 · Vc,rms (1000 h)			
Pulse rise time (dv/dt)	Refer to t	able							
Maximum peak current (I <sub>P</sub> ,max)	C (µF) · d	v/dt (V/)	us)						
Peak non-repetitive current	1.5 · lp								
Damp heat test	56 days /	40 °C /	93% rela	ative hur	midity				
Limit values after damp heat test	Capacitance change (ΔC/C) ≤ 5%								
	Dissipatio	n facto	r change	≤ 0.5 · 10-³ (at 1 kHz) ≤ 1.0 · 10-³ (at 10 kHz)					
	Insulation or time or			≥ 50% of minimum as-delivered values					
Reliability:									
Failure rate λ	1 fit (≤ 1 · 10-9/h) at 0.5 · V <sub>R</sub> , 40 °C								
Service life t <sub>SL</sub>	200 000 h at 1.0 · V <sub>R</sub> , 40 °C								
	For conversion to other operating conditions and temperatures refer to chapter "Quality assurance", data book 2005 "Film Capacitors", page 390.								
Failure criteria:									
Total failure	Short circuit or open circuit								
Failure due to variation of parameters	Capacitance change (ΔC/C) > 1								
	Dissipation factor tan δ > 4					times upper limit value			
	Insulation resistance R <sub>ins</sub> or time constant τ = C <sub>R</sub> · R <sub>ins</sub> < 500 s								
Delivery mode	Bulk								

### Typical waveforms:



 $V_R = \text{maximum operating peak of voltage of either polarity but of a non-reversing waveform, for which the capacitor has been designed, for continuous operation. \\ \hat{V}_{AC} = 0.1 \cdot V_R (DC) \\ V_{P, \text{max}} = \text{this is the maximum permissible recurrent voltage that may appear for max. 1% of the period.} \\$ 

FK DC PM August 2007

KLK1267-S



### **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 hole space differs from the specified lead space.
- 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.

#### Resistance to soldering heat

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

Series	Solder bath temp.	Soldering time
MKT boxed (except 2.5 x 6.5 x 7.2 mm); coated; MKP/MFP	260 ±5 °C	10±1s
MKT boxed (case 2.5 x 6.5 x 7.2 mm)	260 ±5 °C	5±1s

#### General notes on soldering

Permissible heat-exposure loads on film capacitors are primarily characterized by the upper category temperature T<sub>max</sub>. Long exposure to temperatures above this type-related temperature limit can lead to changes in the plastic dielectric and thus irreversibly change a capacitor's electrical characteristics. For short exposure times (as in practical soldering processes), the heat load (and thus the possible effects on the capacitor) will also depend on other factors such as:

- The pre-heating temperature and time.
- The forced cooling immediately after soldering.
- The terminal characteristics: diameter, length, thermal resistance, special configurations (e.g. crimping).
- The height of the capacitor above the solder bath.
- Shadowing by neighboring components.
- Additional heating due to heat dissipation by neighboring components.
- Use of solder-resistant coatings.

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

#### Cleaning

To determine whether a particular solvent, often used to remove flux residues and other substances, is suitable for the capacitors described, please refer to data book 2005 "Film Capacitors", in which this information is available. Even when suitable solvents are used, a reversible change of the electrical characteristics may occur in uncoated capacitors immediately after they have been washed. Thus it is always recommended to dry the components (e.g. 4 h at 70 °C) before they are subjected to subsequent electrical testing.

#### Embedding of capacitors in finished assemblies

In many applications, finished circuit assemblies are embedded in plastic resins. In this case, both chemical and thermal influences of the embedding ("potting") and curing processes must be taken into account. Our experience has shown that the following potting materials can be recommended considering maximum curing temperature 100 °C:

- Non-flexible epoxy resins with acid-anhydride hardeners
- Chemically inert, non-conducting fillers

Caution: Consult us first if you also wish to embed other uncoated component types!

#### Storage conditions

All capacitors listed in this product profile can be stored for short periods at any temperature within the entire range of category temperatures. For long storage periods, however, the following conditions should be observed:

- Storage temperature -40 to +40 °C
- Maximum relative humidity 80%, no dew allowed on the capacitor
- Maximum duration 24 months (12 months for taped components)

#### Resistance to vibration

A capacitor's ability to withstand vibration (e.g. such as that occurring in applications involving rotating machinery) is tested to IEC 60068-2-6. The test procedure used here involves continuous sinusoidal vibration along three orthogonal axes, with a continuously varying frequency (10 ... 500 Hz), an acceleration amplitude of 10 g, a displacement amplitude of 0.75 mm and a duration of 360 minutes for each axis. 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".

#### Passive flammability

The passive flammability test is applied to ensure that components bearing the corresponding qualification contribute less energy to the combustion behavior of their immediate vicinity than is required to ignite them. This measure is designed to contain any localized fire that may occur. In the respective tests, the capacitors are subjected to a standardized flame to evaluate their combustion behavior by checking whether the flame persists for longer than a maximum permissible period or not. The severity of the test is determined essentially by the test flame and exposure time in accordance with various international standards (IEC 60040 CO 752 (amendment to IEC 60384-1), IEC 60695-2-2 and UL 1414). Unless the detail specifications stipulate otherwise, EMI suppression capacitors are tested to IEC 60384-14, section 4.17, test severity categories B and C.



### 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 passive 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 a passive electronic component could endanger human life or health (e.g. in accident prevention or life-saving 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 a passive electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as "hazardous"). Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order.
  - We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available.
- 6. Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI).
- 7. The trade names EPCOS, BAOKE, Alu-X, CeraDiode, CSSP, MiniBlue, MKK, MLSC, MotorCap, PCC, PhaseCap, PhaseMod, SIFI, SIKOREL, SilverCap, SIMDAD, SIMID, SineFormer, SIOV, SIP5D, SIP5K, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.

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