

Power Capacitors

The following products presented in this data sheet are being withdrawn.

Ordering Code		Deadline Last Orders	Last Shipments
B25856K7505K003	2014-08-14	2015-03-31	2016-09-30
B25856K7504K013	2014-08-14	2015-03-31	2016-09-30
B25856K7405K003	2014-08-14	2015-03-31	2016-09-30

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Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments	
B25856K7355K003		2014-08-14	2015-03-31	2016-09-30	
B25856K7255K003		2014-08-14	2015-03-31	2016-09-30	
B25856K7205K003		2014-08-14	2015-03-31	2016-09-30	
B25856K7155K013		2014-08-14	2015-03-31	2016-09-30	
B25856K7105K003		2014-08-14	2015-03-31	2016-09-30	
B25856K4755K003		2014-08-14	2015-03-31	2016-09-30	
B25856K4504K013		2014-08-14	2015-03-31	2016-09-30	
B25856K4255K003		2014-08-14	2015-03-31	2016-09-30	
B25856K4204K003		2014-08-14	2015-03-31	2016-09-30	
B25856K4105K003		2014-08-14	2015-03-31	2016-09-30	
B25856K3504K003		2014-08-14	2015-03-31	2016-09-30	
B25856K3255K003		2014-08-14	2015-03-31	2016-09-30	
B25856K3104K003		2014-08-14	2015-03-31	2016-09-30	
B25856K2504K003		2014-08-14	2015-03-31	2016-09-30	
B25856K2405K003		2014-08-14	2015-03-31	2016-09-30	
B25856K2305K003		2014-08-14	2015-03-31	2016-09-30	
B25856K2255K003		2014-08-14	2015-03-31	2016-09-30	
B25856K2205K003		2014-08-14	2015-03-31	2016-09-30	
B25856K2204K003		2014-08-14	2015-03-31	2016-09-30	
B25856K2105K003		2014-08-14	2015-03-31	2016-09-30	
B25856K1755K003		2014-08-14	2015-03-31	2016-09-30	
B25856K1505K003		2014-08-14	2015-03-31	2016-09-30	
B25856K1255K003		2014-08-14	2015-03-31	2016-09-30	
B25856K1204K003		2014-08-14	2015-03-31	2016-09-30	
B25856K1155K003		2014-08-14	2015-03-31	2016-09-30	
B25856K1106K003		2014-08-14	2015-03-31	2016-09-30	
B25856K0755K003		2014-08-14	2015-03-31	2016-09-30	
B25856K0405K003		2014-08-14	2015-03-31	2016-09-30	
B25856K0205K003		2014-08-14	2015-03-31	2016-09-30	
B25856K0204K003		2014-08-14	2015-03-31	2016-09-30	
B25856K0156K003		2014-08-14	2015-03-31	2016-09-30	
B25856K0155K003		2014-08-14	2015-03-31	2016-09-30	
B25856K0105K003		2014-08-14	2015-03-31	2016-09-30	
B25856J7305J003		2014-08-14	2015-03-31	2016-09-30	
B25856J0474K003		2014-08-14	2015-03-31	2016-09-30	

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



MKV AC, MKV DC Capacitors

B25856

LSI Snubbering and Clamping

Features

- High dielectric strength
- High peak-current capability
- Extremely low inductance

Construction

- Self-healing
- Plastic dielectric
- Oil-impregnated tubular windings (no PCB)
- Metal-sprayed end faces ensure reliable contacting
- Fully insulated case
- Axial version

Terminals

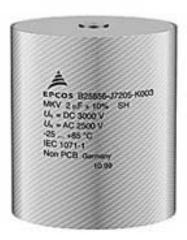
- Internal thread M6 \times 8 and M8 \times 10
- Axial

Mounting

On the terminals

Individual data sheets

Individual data sheets contain detailed specification incl. thermal data. Upon request, these data sheets are available for each capacitor type.





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LSI Snubbering and Clamping

Technical data

Standards		IEC 1071-1/2				
		EN 61071-1/2				
		VDE 0560 part 120 and 121				
Dielectric dissipation factor	tan δ_0	n δ ₀ 2 x 10 ⁻⁴				
Capacitance tolerance		± 10%				
Max. repetitive rate		î				
of voltage rise	$(dv/dt)_{max}$	$\frac{\hat{\mathbf{C}}}{\mathbf{C}}$				
Max. non-repetitive rate		I _s C				
of voltage rise	$(dv/dt)_s$	С				
Climatic data:						
Min. operating temperature	T_{min}	− 25 °C				
Max. operating temperature	T_{max}	+ 85 °C				
Average relative humidity		≤ 95%				
Failure quota	$lpha_{\sf FQ(co)}$	300 failures per 109 compo	nent hours			
Load duration	$t_{LD(co)}$	100 000 h				
Storage temperature limit	T_{stg}	\leq 98 mm diameter: $-55/+85$ °C				
		≥ 103 mm diameter: – 30/+	- 85 °C			
IEC climatic category		25/085/56				
(IEC 68-1 and 2)						
Test B. dn/ best		− 25 °C + 85 °C				
Test B, dry heat Test Ca, damp heat, steady state		56 days/40 °C/93 % rel. ht	ımidity			
Values after test Ca:		00 dayor 10 0700 70 1011 110	aa.ty			
Capacitance change	ΔC/C	≤ 1%				
Insulation resistance	R _{ins}	$C_{B} \le 1 \ \mu F$: $\ge 10000 \ M\Omega$				
Self-discharge time constant $\tau =$	R _{ins} x C	$C_{\rm B} > 1 \mu{\rm F} : \ge 10000 {\rm s}$				
Dissipation factor change	$\Delta \tan \delta$	≤1 x 10 ⁻⁴				
Test data:		- · · · · ·				
Voltage test between terminals						
DC test voltage	V_{TT}	1.5 x V _R , 10 s	$(V_R = DC)$			
	. 11	1.75 x V _B , 10 s	$(V_R = AC)$			
AC test voltage (rms value)	V_{TT}	1.25 x V _R , 50 Hz, 10 s	$(V_B = AC)$			
Insulation resistance	R _{ins}	$C_{R} \le 1 \ \mu F$: $\ge 10000 \ M\Omega$				
Self-discharge time constant	$\tau = R_{ins} \times C$					
Dissipation factor (50 Hz)	tan δ	≤ 3 x 10 ⁻⁴				
		1				



MKV AC, MKV DC Capacitors

B25856

LSI Snubbering and Clamping

Characteristics and ordering codes

C _R ¹⁾	I _{max}	î	Is	R _S 20 °C	L _{self}	Dimensions d × I	Fig.	Appr. weight	Ordering code
μF	Α	Α	Α	mΩ	nΗ	mm		g	
V_{RDC} = AC 1700 V \hat{V} = 2000 V V_{TT} = AC 1800 V, 10 s V_{R} = AC 1400 V V_{S} = 2900 V							C 1800 V, 10 s		
0.2	30	200	500	3.1	<20	40 × 49	1	130	B25856K0204K003
0.47	80	470	1200	1.0	<20	68 × 49	1	300	B25856J0474K003
1	60	1400	3500	1.6	<20	53 × 59	1	200	B25856K0105K003
1.5	80	1400	3500	1.1	<20	68 × 68	2	500	B25856K0155K003
2	70	2000	5000	1.5	<20	68 × 79	2	550	B25856K0205K003
4	70	2400	6000	1.8	<20	73 × 100	2	700	B25856K0405K003
7.5	80	3000	7500	1.0	<20	93 × 100	2	1000	B25856K0755K003
15	80	3000	7500	2.0	<20	93 × 168	2	1600	B25856K0156K003
$V_{RDC} = AC \ 2000 \ V$ $\hat{V} = 2400 \ V$ $V_{TT} = AC \ 2200 \ V, \ 10 \ s$									
	AC 17			$v_s = 3$	3500 \	/	v	TT = AC	, 2200 V, 10 S
0.2	30	350	900	6.0	<20	40 × 59	1	150	B25856K4204K003
0.5	50	600	1500	1.1	<20	68 × 49	1	300	B25856K4504K013
1	50	1200	3000	2.4	<20	53 × 70	1	250	B25856K4105K003
2.5	80	3000	7500	1.0	<20	83 × 79	2	700	B25856K4255K003
7.5	80	4200	10500	1.4	<20	93 × 126	2	1250	B25856K4755K003
V _{RDC} =	AC 25	00 V		$\hat{v} = 3$	3000 \	1	V	AC	2700 V 10 e
$V_{RDC} = AC 2300 V$ $V_{TT} = AC 2700 V, 10 s$ $V_{R} = AC 2100 V$ $V_{S} = 4300 V$								72700 V, 103	
0.2	30	500	1200	6.1	<20	40 × 70	1	160	B25856K1204K003
1.5	80	3600	9000	0.9	<20	83 × 79	2	700	B25856K1155K003
2.5	80	3500	8800	1.3	<20	83 × 100	2	850	B25856K1255K003
5	80	5000	12500	1.5	<20	93 × 142	2	1400	B25856K1505K003
7.5	80	5000	13000	1.8	<20	98 × 173	2	1800	B25856K1755K003
10	80	6800	17000	1.4	<20	108×173	2	2200	B25856K1106K003

¹⁾ Other capacitance values upon request



\sim M/L	\mathbf{A}	Capacitors
U. MIN	V 11.	

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LSI Snubbering and Clamping

Characteristics and ordering codes

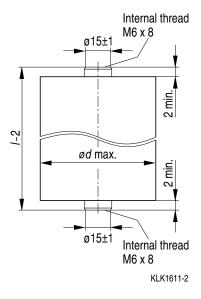
C _R ¹⁾	I _{max}	î	Is	R _S 20 °C	L _{self}	Dimensions d × I	Fig.	Appr. weight	Ordering code	
μF	Α	Α	Α	$m\Omega$	nΗ	mm		g		
V _{RDC} = AC 3000 V V _B = AC 2500 V				v = 3600 V v _s = 5200 V			V	V _{TT} = AC 3200 V, 10 s		
0.5	70	2200	5500	1.9	<20	68 × 79	2	550	B25856K7504K013	
1	80	3000	7500	1.1	<20	83 × 79	2	700	B25856K7105K003	
1.5	80	4800	12000	0.7	<20	93× 79	2	800	B25856K7155K013	
2	80	3600	9000	1.3	<20	88 × 100	2	900	B25856K7205K003	
2.5	80	4500	11000	1.0	<20	98 × 100	2	1100	B25856K7255K003	
3	80	3600	9000	1.9	<10	88 × 142	2	1100	B25856J7305J003	
3.5	80	4200	10500	1.7	<20	93 × 142	2	1400	B25856K7355K003	
4	80	4800	12000	1.5	<20	98 × 142	2	1500	B25856K7405K003	
5	80	6000	15000	1.2	<20	108 × 142	2	1800	B25856K7505K003	
1100					$\hat{V} = 4000 \text{ V}$ $V_{S} = 5800 \text{ V}$ $V_{TT} = AC$			3500 V, 10 s		
0.1	20	350	900	8.0	<20	40 × 70	1	160	B25856K3104K003	
0.5	70	1800	4500	1.7	<20	73× 79	2	600	B25856K3504K003	
2.5	80	3500	8800	2.0	<20	88 × 142	2	1300	B25856K3255K003	
	$V_{RDC} = AC 4000 V$ $\hat{V} = 4800 V$ $V_{TT} = AC 4300 V, 10 s$							4300 V. 10 s		
	AC 34		0000		7000 \					
0.2	50	1200	3000	2.6	<20	53 × 70	1	250	B25856K2204K003	
0.5	80	3000	7500	1.1	<20	83 × 79	2	700	B25856K2504K003	
1	80	3500	8800	1.3	<20	88 × 105	2	1000	B25856K2105K003	
2	80	5000	12500	1.3	<20	98 × 126	2	1350	B25856K2205K003	
2.5	80	3800	9400	2.3	<20	88 × 168	2	1500	B25856K2255K003	
3	80	4500	11000	2.0	<20	98 × 168	2	1700	B25856K2305K003	
4	80	6000	15000	1.5	<20	108 × 168	2	2100	B25856K2405K003	

¹⁾ Other capacitance values upon request



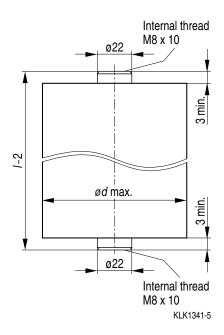
LSI Snubbering and Clamping

Dimensional drawing 1



 \emptyset d_{max} = 40 ... 68 mm: Internal thread = M6 × 8 Max. torque = 7 Nm

Dimensional drawing 2



 \varnothing d_{max} = 68 ... 108 mm: Internal thread = M8 × 10 Max. torque = 7 Nm

Important notes

The following applies to all products named in this publication:

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