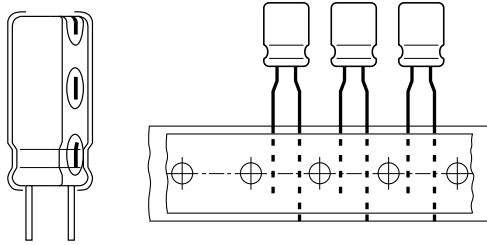


Aluminum Capacitors Radial Style



Component outlines

FEATURES

- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Radial leads, cylindrical aluminum case
- Miniaturized, high CV-product per unit volume
- Extended temperature range: 105 °C
- RoHS compliant


**RoHS
COMPLIANT**
APPLICATIONS

- General purpose, industrial and audio-video
- Coupling, decoupling, timing, smoothing, filtering, buffering in SMPS
- Portable and mobile equipment (small size, low mass)

QUICK REFERENCE DATA

DESCRIPTION	UNIT	VALUE		
Nominal case size (Ø D x L)	mm	5 x 11 to 8 x 11.5		10 x 12.5 to 22 x 41
Rated capacitance range C _R	µF	2.2 to 22 000		
Capacitance tolerance	%	± 20		
Rated voltage range	V	6.3 to 100	160 to 350	400 to 500
Category temperature range	°C	- 55 to + 105	- 40 to + 105	- 25 to + 105
Load life	h	1000		2000
Based on sectional specification		IEC 60384-4/EN 130300		
Climatic category IEC 60068		55/105/56	40/105/56	25/105/56

SELECTION CHART FOR C_R, U_R AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)

C _R (µF)	RATED VOLTAGE (V) (> 100 V see next page)							
	6.3	10	16	25	35	50	63	100
2.2	→	→	→	→	→	→	5 x 11	5 x 11
3.3	→	→	→	→	→	→	5 x 11	5 x 11
4.7	→	→	→	→	→	→	5 x 11	5 x 11
6.8	→	→	→	→	→	→	5 x 11	5 x 11
10	→	→	→	→	→	→	5 x 11	5 x 11
15	→	→	→	→	→	→	5 x 11	6.3 x 11
22	→	→	→	→	→	→	5 x 11	6.3 x 11
33	→	→	→	→	→	5 x 11	6.3 x 11	8 x 11.5
47	→	→	→	→	5 x 11	6.3 x 11	6.3 x 11	10 x 12.5
68	→	→	→	5 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 16
100	→	→	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 20
150	→	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	10 x 12.5	10 x 12.5	12.5 x 20
220	5 x 11	5 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	10 x 16	12.5 x 25
330	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	10 x 16	10 x 20	16 x 25
470	6.3 x 11	6.3 x 11	8 x 11.5	10 x 12.5	10 x 16	10 x 20	12.5 x 20	16 x 25
680	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	12.5 x 16	12.5 x 20	12.5 x 25	16 x 31.5
1000	8 x 11.5	10 x 12.5	10 x 16	10 x 20	12.5 x 20	12.5 x 25	16 x 25	18 x 40
1500	10 x 16	10 x 16	12.5 x 16	12.5 x 20	16 x 20	16 x 25	16 x 35.5	-
2200	10 x 20	10 x 20	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5	16 x 35.5	-
3300	12.5 x 16	12.5 x 20	12.5 x 25	16 x 25	16 x 35.5	18 x 35.5	18 x 40	-
4700	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5	-	-	-
6800	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5	-	-	-	-
10 000	16 x 25	16 x 35.5	18 x 35.5	-	-	-	-	-
15 000	16 x 35.5	18 x 35.5	-	-	-	-	-	-
22 000	18 x 40	-	-	-	-	-	-	-

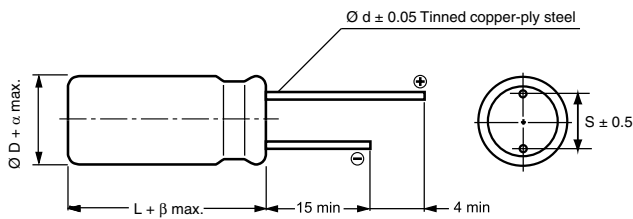
10 % capacitance tolerance on request

SELECTION CHART FOR C_R, U_R AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)

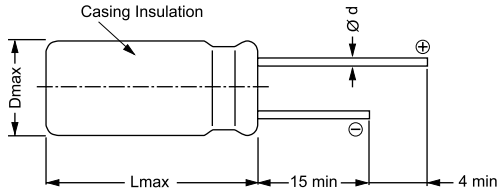
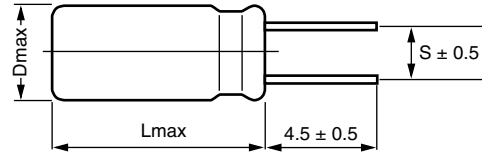
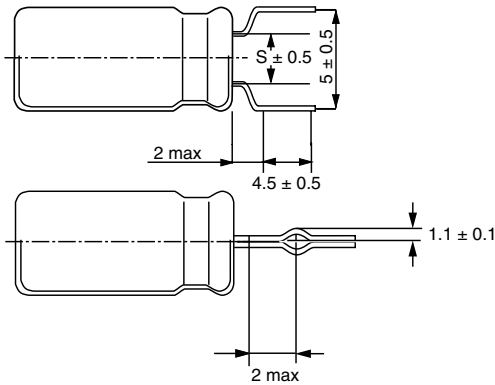
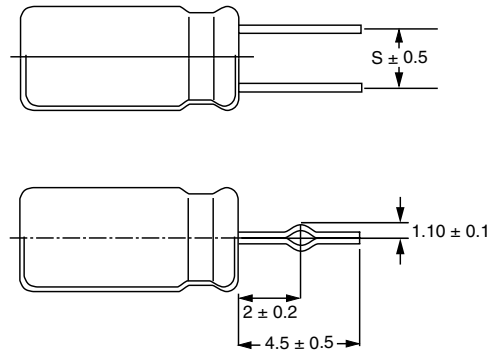
C _R (µF)	RATED VOLTAGE (V)						
	160	200	250	350	400	450	500
2.2	6.3 x 11	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	-
3.3	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	10 x 16	-
4.7	6.3 x 11	8 x 11.5	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	10 x 16
6.8	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	10 x 16	10 x 20	10 x 16
10	10 x 12.5	10 x 12.5	10 x 12.5	10 x 16	10 x 20	12.5 x 20	12.5 x 25
15	10 x 16	10 x 16	10 x 16	10 x 20	12.5 x 20	12.5 x 25	12.5 x 30
22	10 x 16	10 x 16	10 x 20	12.5 x 20	12.5 x 25	16 x 25	16 x 25
33	10 x 20	10 x 20	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5	16 x 31.5
47	12.5 x 20	12.5 x 20	1.25 x 25	16 x 25	16 x 31.5	16 x 35.5	18 x 31.5
68	12.5 x 25	16 x 20	16 x 25	16 x 31.5	18 x 35.5	18 x 40	18 x 31.5
100	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5	18 x 40	22 x 41	-
150	16 x 25	16 x 35.5	18 x 35.5	18 x 40	22 x 41	-	-
220	16 x 31.5	18 x 35.5	18 x 40	22 x 41	-	-	-
330	18 x 35.5	18 x 40	22 x 41	-	-	-	-
470	18 x 40	22 x 41	-	-	-	-	-
680	22 x 41	-	-	-	-	-	-

10 % capacitance tolerance on request

RADIAL STYLE: DIMENSIONS in millimeters



Ø D	5	6.3	8	10	12.5	16	18	22	25
S	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5
Ø d	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0
β	1.5			2.0					
α	0.5							1.0	

DIMENSIONS in millimeters AND AVAILABLE FORMS

 $\varnothing D \leq 18$ Long Leads EKB 00...

 $\varnothing D \leq 25$ Shortened leads EKB 05 ...
 (S = 2/2.5/3.5/5/7.5/10 mm)

 $\varnothing D \leq 8$ Leads shortened and formed EKB 09...
 (S = 2.0/2.5/3.5 mm)

 $10 \leq \varnothing D \leq 18$ Leads shortened and formed EKB 06...
 (S = 5/7.5 mm)

GENERAL NOTE

- For Standard Packaging Quantity (SPQ) and Minimum Order Quantity (MOQ) please refer to our price list or contact customer service
- For other packaging forms please refer to Vishay Roederstein General Information

ELECTRICAL DATA	
SYMBOL	DESCRIPTION
U_R	rated voltage
C_R	rated capacitance at 120 Hz
$\tan \delta$	max. dissipation factor at 120 Hz
R_{ESR}	calculated equivalent series resistance at 120 Hz
I_R	rated ripple current (rms) at 120 Hz and upper category temperature

Note

1. Unless otherwise specified, all electrical values apply at
 $T_a = 20^\circ\text{C}$, $P = 80$ to 120 kPa, $RH = 45$ to 75 %.

ORDERING EXAMPLE

EKB 3300 $\mu\text{F}/25$ V, ± 20 %, size: 16 mm x 25 mm
 Leads: Long

Ordering code: EKB 00JG433E00K

Leads: Short
 Ordering code: EKB 05...

For $5 \leq \varnothing D \leq 8$ mm
 Leads: Bent open, shortened and formed
 Ordering code: EKB 09...

For $10 \leq \varnothing D \leq 18$ mm
 Leads: Shortened and formed
 Ordering code: EKB 06 ...

ELECTRICAL DATA AND ORDERING INFORMATION

U_R (V)	C_R 120 Hz (μ F)	NOMINAL CASE SIZE \varnothing D x L (mm)	$\tan \delta$ 120 Hz	R_{ESR} 120 Hz (Ω)	I_R 120 Hz/105 °C (mA)	WEIGHT (g)	CATALOG NUMBER (long leads)
6.3	220	5 x 11	0.28	1.69	146	0.45	EKB00AA322B00K
6.3	330	6.3 x 11	0.28	1.13	206	0.50	EKB00BA333B00K
6.3	470	6.3 x 11	0.28	0.790	246	0.50	EKB00BA347B00K
6.3	680	8 x 11.5	0.28	0.546	348	1.0	EKB00PB368B00K
6.3	1000	8 x 11.5	0.28	0.371	422	1.0	EKB00PB410B00K
6.3	1500	10 x 16	0.30	0.265	621	2.0	EKB00DD415B00K
6.3	2200	10 x 20	0.32	0.193	778	3.0	EKB00DE422B00K
6.3	3300	12.5 x 16	0.34	0.137	983	3.0	EKB00FD433B00K
6.3	4700	12.5 x 20	0.36	0.102	1219	4.0	EKB00FE447B00K
6.3	6800	12.5 x 25	0.40	0.078	1480	5.0	EKB00FG468B00K
6.3	10 000	16 x 25	0.48	0.064	1807	8.5	EKB00JG510B00K
6.3	15 000	16 x 35.5	0.58	0.051	2233	11.0	EKB00JL515B00K
6.3	22 000	18 x 40	0.72	0.043	2652	14.5	EKB00KK522B00K
10	150	5 x 11	0.24	2.12	134	0.45	EKB00AA315C00K
10	220	5 x 11	0.24	1.45	162	0.45	EKB00AA322C00K
10	330	6.3 x 11	0.24	0.965	228	0.50	EKB00BA333C00K
10	470	6.3 x 11	0.24	0.677	272	0.50	EKB00BA347C00K
10	680	10 x 12.5	0.24	0.468	449	2.0	EKB00DC368C00K
10	1000	10 x 12.5	0.24	0.318	544	2.0	EKB00DC410C00K
10	1500	10 x 16	0.26	0.230	680	2.0	EKB00DD415C00K
10	2200	10 x 20	0.28	0.169	844	3.0	EKB00DE422C00K
10	3300	12.5 x 20	0.30	0.121	1148	4.0	EKB00FE433C00K
10	4700	12.5 x 25	0.32	0.090	1421	5.0	EKB00FG447C00K
10	6800	16 x 25	0.36	0.070	1737	8.5	EKB00JG468C00K
10	10 000	16 x 35.5	0.44	0.058	2172	11.0	EKB00JL510C00K
10	15 000	18 x 35.5	0.54	0.048	2482	14.0	EKB00KL515C00K
16	100	5 x 11	0.20	2.65	119	0.45	EKB00AA310D00K
16	150	6.3 x 11	0.20	1.77	167	0.50	EKB00BA315D00K
16	220	6.3 x 11	0.20	1.21	203	0.50	EKB00BA322D00K
16	330	8 x 11.5	0.20	0.804	293	1.0	EKB00PB333D00K
16	470	8 x 11.5	0.20	0.564	349	1.0	EKB00PB347D00K
16	680	10 x 12.5	0.20	0.390	488	2.0	EKB00DC368D00K
16	1000	10 x 16	0.20	0.265	648	2.0	EKB00DD410D00K
16	1500	12.5 x 16	0.22	0.195	862	3.0	EKB00FD415D00K
16	2200	12.5 x 20	0.24	0.145	1055	4.0	EKB00FE422D00K
16	3300	12.5 x 25	0.26	0.104	1323	5.0	EKB00FG433D00K
16	4700	16 x 25	0.28	0.079	1657	8.5	EKB00JG447D00K
16	6800	16 x 31.5	0.32	0.062	1982	10.0	EKB00JS468D00K
16	10 000	18 x 35.5	0.40	0.053	2409	14.0	EKB00KL510D00K
25	68	5 x 11	0.16	3.12	108	0.45	EKB00AA268E00K
25	100	6.3 x 11	0.16	2.12	151	0.50	EKB00BA310E00K
25	150	6.3 x 11	0.16	1.41	185	0.50	EKB00BA315E00K
25	220	8 x 11.5	0.16	0.965	264	1.0	EKB00PB322E00K
25	330	8 x 11.5	0.16	0.643	324	1.0	EKB00PB333E00K
25	470	10 x 12.5	0.16	0.452	449	2.0	EKB00DC347E00K



Aluminum Capacitors
Radial Style

Vishay Roederstein

ELECTRICAL DATA AND ORDERING INFORMATION							
U_R (V)	C_R 120 Hz (μ F)	NOMINAL CASE SIZE \varnothing D x L (mm)	$\tan \delta$ 120 Hz	R_{ESR} 120 Hz (Ω)	I_R 120 Hz/105 °C (mA)	WEIGHT (g)	CATALOG NUMBER (long leads)
25	680	10 x 16	0.16	0.312	591	2.0	EKB00DD368E00K
25	1000	10 x 20	0.16	0.212	782	3.0	EKB00DE410E00K
25	1500	12.5 x 20	0.18	0.159	1017	4.0	EKB00FE415E00K
25	2200	12.5 x 25	0.20	0.121	1235	5.0	EKB00FG422E00K
25	3300	16 x 25	0.22	0.088	1562	8.5	EKB00JG433E00K
25	4700	16 x 31.5	0.24	0.068	1916	10.0	EKB00JS447E00K
25	6800	18 x 35.5	0.28	0.055	2335	14.0	EKB00KL468E00K
35	47	5 x 11	0.14	3.95	96	0.45	EKB00AA247F00K
35	68	6.3 x 11	0.14	2.73	132	0.50	EKB00BA268F00K
35	100	6.3 x 11	0.14	1.86	160	0.50	EKB00BA310F00K
35	150	8 x 11.5	0.14	1.24	231	1.0	EKB00PB315F00K
35	220	8 x 11.5	0.14	0.844	280	1.0	EKB00PB322F00K
35	330	10 x 12.5	0.14	0.563	399	2.0	EKB00DC333F00K
35	470	10 x 16	0.14	0.395	521	2.0	EKB00DD347F00K
35	680	12.5 x 16	0.14	0.273	740	3.0	EKB00FD368F00K
35	1000	12.5 x 20	0.14	0.186	974	4.0	EKB00FE410F00K
35	1500	16 x 20	0.16	0.141	1188	6.0	EKB00JE415F00K
35	2200	16 x 25	0.18	0.109	1426	8.5	EKB00JG422F00K
35	3300	16 x 35.5	0.20	0.080	1857	11.0	EKB00JL433F00K
35	4700	18 x 35.5	0.22	0.062	2224	14.0	EKB00KL447F00K
50	33	5 x 11	0.12	4.82	92	0.45	EKB00AA233H00K
50	47	6.3 x 11	0.12	3.39	127	0.50	EKB00BA247H00K
50	68	8 x 11.5	0.12	2.34	180	1.0	EKB00PB268H00K
50	100	8 x 11.5	0.12	1.59	218	1.0	EKB00PB310H00K
50	150	10 x 12.5	0.12	1.06	310	2.0	EKB00DC315H00K
50	220	10 x 12.5	0.12	0.723	376	2.0	EKB00DC322H00K
50	330	10 x 16	0.12	0.482	504	2.0	EKB00DD333H00K
50	470	10 x 20	0.12	0.339	657	3.0	EKB00DE347H00K
50	680	12.5 x 20	0.12	0.234	927	4.0	EKB00FE368H00K
50	1000	12.5 x 25	0.12	0.159	1226	5.0	EKB00FG410H00K
50	1500	16 x 25	0.14	0.124	1442	8.5	EKB00JG415H00K
50	2200	16 x 31.5	0.16	0.096	1442	10.0	EKB00JS422H00K
50	3300	18 x 35.5	0.18	0.072	1794	14.0	EKB00KL433H00K
63	2.2	5 x 11	0.10	60.3	26	0.45	EKB00AA122J00K
63	3.3	5 x 11	0.10	40.2	32	0.45	EKB00AA133J00K
63	4.7	5 x 11	0.10	28.2	38	0.45	EKB00AA147J00K
63	6.8	5 x 11	0.10	19.5	46	0.45	EKB00AA168J00K
63	10	5 x 11	0.10	13.3	56	0.45	EKB00AA210J00K
63	15	5 x 11	0.10	8.84	68	0.45	EKB00AA215J00K
63	22	5 x 11	0.10	6.03	83	0.45	EKB00AA222J00K
63	33	6.3 x 11	0.10	4.02	116	0.50	EKB00BA233J00K
63	47	6.3 x 11	0.10	2.82	139	0.50	EKB00BA247J00K
63	68	8 x 11.5	0.10	1.95	197	1.0	EKB00PB268J00K
63	100	8 x 11.5	0.10	1.33	239	1.0	EKB00PB310J00K
63	150	10 x 12.5	0.10	0.884	340	2.0	EKB00DC315J00K
63	220	10 x 16	0.10	0.603	451	2.0	EKB00DD322J00K

ELECTRICAL DATA AND ORDERING INFORMATION							
U_R (V)	C_R 120 Hz (μ F)	NOMINAL CASE SIZE \varnothing D x L (mm)	$\tan \delta$ 120 Hz	R_{ESR} 120 Hz (Ω)	I_R 120 Hz/105 °C (mA)	WEIGHT (g)	CATALOG NUMBER (long leads)
63	330	10 x 20	0.10	0.402	603	3.0	EKB00DE333J00K
63	470	12.5 x 20	0.10	0.282	844	4.0	EKB00FE347J00K
63	680	12.5 x 25	0.10	0.195	1107	5.0	EKB00FG368J00K
63	1000	16 x 25	0.10	0.133	1490	8.5	EKB00JG410J00K
63	1500	16 x 35.5	0.12	0.106	1770	11.0	EKB00JL415J00K
63	2200	16 x 35.5	0.14	0.084	1770	11.0	EKB00JL422J00K
63	3300	18 x 40	0.16	0.064	2689	14.5	EKB00KK433J00K
100	2.2	5 x 11	0.08	48.2	26	0.45	EKB00AA122L00K
100	3.3	5 x 11	0.08	32.2	32	0.45	EKB00AA133L00K
100	4.7	5 x 11	0.08	22.6	38	0.45	EKB00AA147L00K
100	6.8	5 x 11	0.08	15.6	46	0.45	EKB00AA168L00K
100	10	5 x 11	0.08	10.6	56	0.45	EKB00AA210L00K
100	15	6.3 x 11	0.08	7.07	78	0.50	EKB00BA215L00K
100	22	6.3 x 11	0.08	4.82	95	0.50	EKB00BA222L00K
100	33	8 x 11.5	0.08	3.22	137	1.0	EKB00PB233L00K
100	47	10 x 12.5	0.08	2.26	190	2.0	EKB00DC247L00K
100	68	10 x 16	0.08	1.56	251	2.0	EKB00DD268L00K
100	100	10 x 20	0.08	1.06	332	3.0	EKB00DE310L00K
100	150	12.5 x 20	0.08	0.707	477	4.0	EKB00FE315L00K
100	220	12.5 x 25	0.08	0.482	630	5.0	EKB00FG322L00K
100	330	16 x 25	0.08	0.322	856	8.5	EKB00JG333L00K
100	470	16 x 25	0.08	0.226	1021	8.5	EKB00JG347L00K
100	680	16 x 31.5	0.08	0.156	1344	10.0	EKB00JS368L00K
100	1000	18 x 40	0.08	0.106	1925	14.5	EKB00KK410L00K
160	2.2	6.3 x 11	0.15	90.4	23	0.50	EKB00BA122M00K
160	3.3	6.3 x 11	0.15	60.3	29	0.50	EKB00BA133M00K
160	4.7	6.3 x 11	0.15	42.3	34	0.50	EKB00BA147M00K
160	6.8	8 x 11.5	0.15	29.3	49	1.0	EKB00PB168M00K
160	10	10 x 12.5	0.15	19.9	68	2.0	EKB00DC210M00K
160	15	10 x 16	0.15	13.3	92	2.0	EKB00DD215M00K
160	22	10 x 16	0.15	9.04	111	2.0	EKB00DD222M00K
160	33	10 x 20	0.15	6.03	149	3.0	EKB00DE233M00K
160	47	12.5 x 20	0.15	4.23	208	4.0	EKB00FE247M00K
160	68	12.5 x 25	0.15	2.93	273	5.0	EKB00FG268M00K
160	100	12.5 x 25	0.15	1.99	331	5.0	EKB00FG310M00K
160	150	16 x 25	0.15	1.33	450	8.5	EKB00JG315M00K
160	220	16 x 31.5	0.15	0.904	596	10.0	EKB00JS322M00K
160	330	18 x 35.5	0.15	0.603	822	14.0	EKB00KL333M00K
160	470	18 x 40	0.15	0.423	1015	14.5	EKB00KK347M00K
160	680	22 x 41	0.15	0.293	1390	23.5	EKB00LK368M00K
200	2.2	6.3 x 11	0.15	90.4	23	0.50	EKB00BA122S00K
200	3.3	6.3 x 11	0.15	60.3	29	0.50	EKB00BA133S00K
200	4.7	8 x 11.5	0.15	42.3	40	1.0	EKB00PB147S00K
200	6.8	10 x 12.5	0.15	29.3	56	2.0	EKB00DC168S00K
200	10	10 x 12.5	0.15	19.9	68	2.0	EKB00DC210S00K
200	15	10 x 16	0.15	13.3	92	2.0	EKB00DD215S00K



Aluminum Capacitors
Radial Style

Vishay Roederstein

ELECTRICAL DATA AND ORDERING INFORMATION							
U_R (V)	C_R 120 Hz (μ F)	NOMINAL CASE SIZE \varnothing D x L (mm)	$\tan \delta$ 120 Hz	R_{ESR} 120 Hz (Ω)	I_R 120 Hz/105 °C (mA)	WEIGHT (g)	CATALOG NUMBER (long leads)
200	22	10 x 16	0.15	9.04	111	2.0	EKB00DD222S00K
200	33	10 x 20	0.15	6.03	149	3.0	EKB00DE233S00K
200	47	12.5 x 20	0.15	4.23	208	4.0	EKB00FE247S00K
200	68	16 x 20	0.15	2.93	279	6.0	EKB00JE268S00K
200	100	16 x 25	0.15	1.99	368	8.5	EKB00JG310S00K
200	150	16 x 35.5	0.15	1.33	517	11.0	EKB00JL315S00K
200	220	18 x 35.5	0.15	0.904	671	14.0	EKB00KL322S00K
200	330	18 x 40	0.15	0.603	850	14.5	EKB00KK333S00K
200	470	22 x 41	0.15	0.423	1155	23.5	EKB00LK347S00K
250	2.2	6.3 x 11	0.15	90.4	23	0.50	EKB00BA122N00K
250	3.3	8 x 11.5	0.15	60.3	34	1.0	EKB00PB133N00K
250	4.7	8 x 11.5	0.15	42.3	40	1.0	EKB00PB147N00K
250	6.8	10 x 12.5	0.15	29.3	56	2.0	EKB00DC168N00K
250	10	10 x 12.5	0.15	19.9	68	2.0	EKB00DC210N00K
250	15	10 x 16	0.15	13.3	92	2.0	EKB00DD215N00K
250	22	10 x 20	0.15	9.04	121	3.0	EKB00DE222N00K
250	33	12.5 x 20	0.15	6.03	175	4.0	EKB00FE233N00K
250	47	12.5 x 25	0.15	4.23	227	5.0	EKB00FG247N00K
250	68	16 x 25	0.15	2.93	303	8.5	EKB00JG268N00K
250	100	16 x 31.5	0.15	1.99	402	10.0	EKB00JS310N00K
250	150	18 x 35.5	0.15	1.33	554	14.0	EKB00KL315N00K
250	220	18 x 40	0.15	0.904	694	14.5	EKB00KK322N00K
250	330	22 x 41	0.15	0.603	968	23.5	EKB00LK333N00K
350	2.2	8 x 11.5	0.20	121	28	1.0	EKB00PB122O00K
350	3.3	8 x 11.5	0.20	80.4	34	1.0	EKB00PB133O00K
350	4.7	10 x 12.5	0.20	56.4	47	2.0	EKB00DC147O00K
350	6.8	10 x 16	0.20	39.0	62	2.0	EKB00DD168O00K
350	10	10 x 16	0.20	26.5	75	2.0	EKB00DD210O00K
350	15	10 x 20	0.20	17.7	100	3.0	EKB00DE215O00K
350	22	12.5 x 20	0.20	12.1	143	4.0	EKB00FE222O00K
350	33	12.5 x 25	0.20	8.04	190	5.0	EKB00FG233O00K
350	47	16 x 25	0.20	5.64	252	8.5	EKB00JG247O00K
350	68	16 x 31.5	0.20	3.90	332	10.0	EKB00JS268O00K
350	100	18 x 35.5	0.20	2.65	407	14.0	EKB00KL310O00K
350	150	18 x 40	0.20	1.77	523	14.5	EKB00KK315O00K
350	220	22 x 41	0.20	1.21	721	23.5	EKB00LK322O00K
400	2.2	8 x 11.5	0.20	121	28	1.0	EKB00PB122X00K
400	3.3	10 x 12.5	0.20	80.4	39	2.0	EKB00DC133X00K
400	4.7	10 x 12.5	0.20	56.4	47	2.0	EKB00DC147X00K
400	6.8	10 x 16	0.20	39.0	62	2.0	EKB00DD168X00K
400	10	10 x 20	0.20	26.5	82	3.0	EKB00DE210X00K
400	15	12.5 x 20	0.20	17.7	118	4.0	EKB00FE215X00K
400	22	12.5 x 25	0.20	12.1	155	5.0	EKB00FG222X00K
400	33	16 x 25	0.20	8.04	211	8.5	EKB00JG233X00K
400	47	16 x 31.5	0.20	5.64	276	10.0	EKB00JS247X00K
400	68	18 x 35.5	0.20	3.90	373	14.0	EKB00KL268X00K

ELECTRICAL DATA AND ORDERING INFORMATION

U_R (V)	C_R 120 Hz (μ F)	NOMINAL CASE SIZE \varnothing D x L (mm)	$\tan \delta$ 120 Hz	R_{ESR} 120 Hz (Ω)	I_R 120 Hz/105 °C (mA)	WEIGHT (g)	CATALOG NUMBER (long leads)
400	100	18 x 40	0.20	2.65	427	14.5	EKB00KK310X00K
400	150	22 x 41	0.20	1.77	596	23.5	EKB00LK315X00K
450	2.2	10 x 12.5	0.20	121	27	2.0	EKB00DC122P00K
450	3.3	10 x 16	0.20	80.4	36	2.0	EKB00DD133P00K
450	4.7	10 x 16	0.20	56.4	43	2.0	EKB00DD147P00K
450	6.8	10 x 20	0.20	39.0	56	3.0	EKB00DE168P00K
450	10	12.5 x 20	0.20	26.5	80	4.0	EKB00FE210P00K
450	15	12.5 x 25	0.20	17.7	107	5.0	EKB00FG215P00K
450	22	16 x 25	0.20	12.1	144	8.5	EKB00JG222P00K
450	33	16 x 31.5	0.20	8.04	193	10.0	EKB00JS233P00K
450	47	16 x 35.5	0.20	5.64	242	11.0	EKB00JL247P00K
450	68	18 x 40	0.20	3.90	352	14.5	EKB00KK268P00K
450	100	22 x 41	0.20	2.65	486	23.5	EKB00LK310P00K
500	4.7	10 x 16	0.20	56.4	59	2.0	EKB00DD147Y00K
500	6.8	10 x 16	0.20	39.0	72	2.0	EKB00DD168Y00K
500	10	12.5 x 25	0.20	26.5	88	5.0	EKB00FG210Y00K
500	15	12.5 x 30	0.20	17.7	115	7.0	EKB00FJ215Y00K
500	22	16 x 25	0.20	12.1	159	8.5	EKB00JG222Y00K
500	33	16 x 31.5	0.20	8.04	207	10.0	EKB00JS233Y00K
500	47	18 x 31.5	0.20	5.64	261	11.5	EKB00KS247Y00K
500	68	18 x 31.5	0.20	3.90	335	11.5	EKB00KS268Y00K

LOW TEMPERATURE BEHAVIOR

IMPEDANCE RATIO $Z(T_2)/Z(T_1)$	RATED VOLTAGE (V)									
	6.3	10	16	25	35	50 ~ 100	160	200 ~ 350	400	400 ~ 500
T2/T1	6.3	10	16	25	35	50 ~ 100	160	200 ~ 350	400	400 ~ 500
- 25/+ 20 °C	5	4	3	2	2	2	3	4	6	10
- 40/+ 20 °C	10	8	6	4	3	3	4	8	-	-

ADDITIONAL ELECTRICAL DATA

PARAMETER	CONDITIONS	VALUE
Current		
Leakage current (Test conditions: U_R , 20 °C)	after 1 minute at U_R	$I_{L1} \leq 0.03 \times C_R \times U_R$ or 4 μ A for $U_R \leq 100$ V (whichever is greater)
	after 2 minutes at U_R	$I_{L2} \leq 0.01 \times C_R \times U_R$ or 3 μ A for $U_R \leq 100$ V (whichever is greater)
	after 5 minutes at U_R	$I_{L5} \leq 0.02 \times C_R \times U_R$ or 15 μ A for $U_R > 100$ V (whichever is greater)
Resistance		
Equivalent series resistance (ESR)	calculated from $\tan \delta_{max}$ and C_R	$ESR = \tan \delta / 2 \pi f C_R$



MULTIPLIER OF RIPPLE CURRENT (I_R) AS A FUNCTION OF FREQUENCY			
FREQUENCY (Hz)	I_R MULTIPLIER FOR $U_R \leq 100$ V		
	$C_R \leq 47 \mu\text{F}$	$C_R = 68$ to $680 \mu\text{F}$	$C_R > 1000 \mu\text{F}$
50	0.75	0.80	0.85
120	1.00	1.00	1.00
300	1.35	1.25	1.10
1000	1.55	1.35	1.15
$\geq 10\ 000$	2.00	1.50	1.15

MULTIPLIER OF RIPPLE CURRENT (I_R) AS A FUNCTION OF FREQUENCY		
FREQUENCY (Hz)	I_R MULTIPLIER FOR $U_R 160$ V to ≤ 500 V	
	$C_R = 47$ to $220 \mu\text{F}$	$C_R \geq 330 \mu\text{F}$
50	0.80	0.90
120	1.00	1.00
300	1.25	1.10
1000	1.40	1.13
$\geq 10\ 000$	1.60	1.15

TEST PROCEDURES AND REQUIREMENTS		
TEST	PROCEDURE (QUICK REFERENCE)	REQUIREMENTS
LOAD LIFE	$T_{amb} = 105\ ^\circ\text{C}$; U_R and I_R applied; after 2000 hours	$\Delta C/C: \pm 20\ %$ of initial value $I_L \leq \text{spec. limit}$ $\tan \delta \leq 2 \times \text{spec. limit}$
SHELF LIFE	$T_{amb} = 105\ ^\circ\text{C}$; no voltage applied; after 1000 hours; after test: U_R to be applied for 30 minutes, 24 to 48 hours before measurement	$\Delta C/C: \pm 20\ %$ of initial value $I_L \leq \text{spec. limit}$ $\tan \delta \leq 2 \times \text{spec. limit}$



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