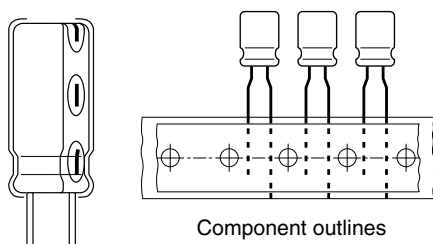


Aluminum Capacitors Radial Style



FEATURES

- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Radial leads, cylindrical aluminum case
- Miniaturized, high CV-product per unit volume
- 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 25 x 41	
Rated capacitance range C _R	µF	1 to 39 000	
Capacitance tolerance	%	± 20	
Rated voltage range	V	6.3 to 350	400 to 500
Category temperature range	°C	- 40 to + 85	- 25 to + 85
Load life	h	2000	
Based on sectional specification		IEC 60384-4/EN 130300	
Climatic category IEC 60068		40/085/56	25/085/56

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

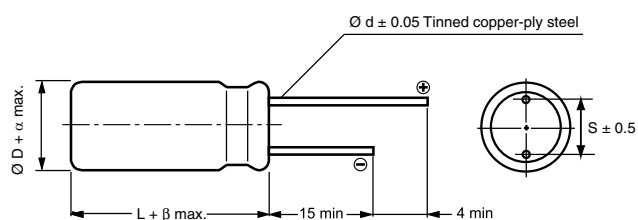
C _R (µF)	RATED VOLTAGE (V) (> 100 V see next page)							
	6.3	10	16	25	35	50	63	100
1.0	→	→	→	→	→	→	5 x 11	5 x 11
1.5	→	→	→	→	→	→	5 x 11	5 x 11
2.2	→	→	→	→	→	→	5 x 11	5 x 11
3.3	→	→	→	→	→	→	5 x 11	5 x 11
4.7	→	→	→	→	→	→	5 x 11	5 x 11
6.8	→	→	→	→	→	→	5 x 11	5 x 11
10	→	→	→	→	→	→	5 x 11	5 x 11
15	→	→	→	→	→	→	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	8 x 11.5
68	→	→	→	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	10 x 12.5
100	→	→	5 x 11	5 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 16
150	→	→	5 x 11	6.3 x 11	8 x 11.5	10 x 12.5	10 x 12.5	10 x 20
220	5 x 11	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	10 x 12.5	10 x 16	12.5 x 20
330	6.3 x 11	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 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	8 x 11.5	8 x 11.5	10 x 16	10 x 20	12.5 x 20	12.5 x 25	16 x 31.5
1000	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	12.5 x 20	12.5 x 25	16 x 25	18 x 31.5
2200	10 x 16	10 x 16	10 x 20	12.5 x 20	16 x 25	16 x 31.5	18 x 31.5	-
3300	10 x 20	12.5 x 20	12.5 x 20	16 x 25	16 x 31.5	18 x 31.5	18 x 40	-
4700	12.5 x 20	12.5 x 25	12.5 x 25	16 x 25	16 x 35.5	18 x 40	25 x 41	-
6800	12.5 x 25	16 x 25	16 x 25	18 x 31.5	18 x 40	25 x 41	-	-
10 000	16 x 25	16 x 31.5	16 x 31.5	18 x 40	25 x 41	-	-	-
15 000	16 x 35.5	16 x 35.5	18 x 35.5	25 x 41	-	-	-	-
22 000	18 x 40	18 x 40	22 x 41	-	-	-	-	-
33 000	22 x 41	25 x 41	-	-	-	-	-	-
39 000	25 x 41	-	-	-	-	-	-	-

10 % capacitance tolerance on request

SELECTION CHART FOR C_R , U_R AND RELEVANT NOMINAL CASE SIZES ($\varnothing D \times L$ in mm)

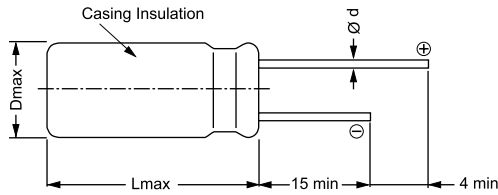
C_R (μF)	RATED VOLTAGE (V)						
	160	200	250	350	400	450	500
1.0	→	→	→	→	→	8 x 11.5	-
1.5	→	→	→	→	→	8 x 11.5	-
2.2	→	→	→	→	→	8 x 11.5	-
3.3	6.3 x 11	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	8 x 11.5	-
4.7	6.3 x 11	6.3 x 11	6.3 x 11	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16
6.8	8 x 11.5	8 x 11.5	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	10 x 16
10	8 x 11.5	8 x 11.5	10 x 12.5	10 x 12.5	10 x 16	10 x 20	12.5 x 25
15	10 x 12.5	10 x 16	10 x 16	10 x 20	12.5 x 20	12.5 x 20	-
22	10 x 12.5	10 x 16	10 x 16	12.5 x 20	12.5 x 20	12.5 x 25	16 x 25
33	10 x 16	10 x 20	10 x 20	16 x 20	12.5 x 25	16 x 25	16 x 31.5
47	10 x 20	10 x 20	12.5 x 20	16 x 20	16 x 25	16 x 31.5	16 x 31.5
68	12.5 x 20	12.5 x 25	16 x 20	16 x 25	16 x 31.5	16 x 35.5	18 x 35.5
100	12.5 x 25	16 x 25	16 x 25	18 x 31.5	18 x 35.5	18 x 40	-
150	16 x 20	16 x 25	16 x 31.5	18 x 40	18 x 40	22 x 45	-
220	16 x 25	18 x 31.5	18 x 35.5	22 x 41	22 x 45	-	-
330	16 x 35.5	18 x 35.5	22 x 41	-	-	-	-
470	18 x 40	22 x 41	25 x 41	-	-	-	-
680	22 x 41	-	-	-	-	-	-

10 % capacitance tolerance on request

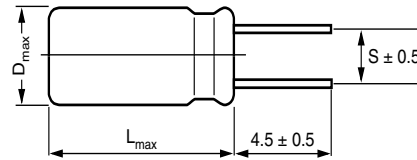
RADIAL STYLE: DIMENSIONS in millimeters

$\varnothing D$	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
$\varnothing d$	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	

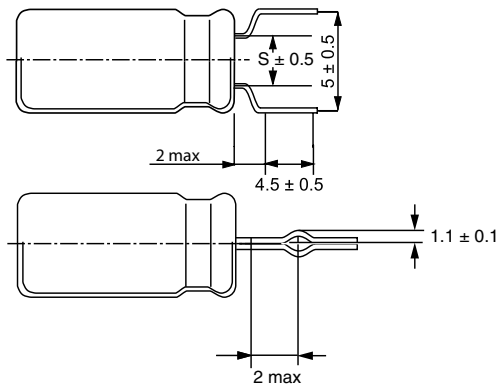
DIMENSIONS in millimeters AND AVAILABLE FORMS



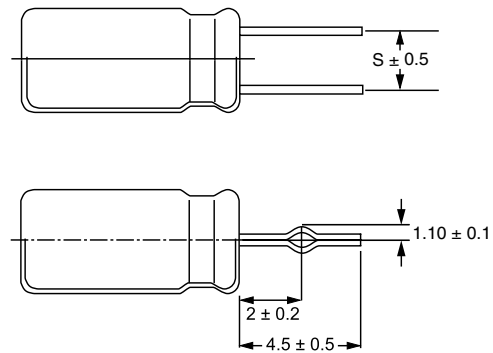
Ø D ≤ 18 Long Leads EKA 00...



Ø D ≤ 25 Shortened leads EKA 05 ...
(S = 2/2.5/3.5/5/7.5/10 mm)



Ø D ≤ 8 Leads shortened and formed EKA 09...
(S = 2.0/2.5/3.5 mm)



10 ≤ Ø D ≤ 18 Leads shortened and formed EKA 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

EKA 3300 $\mu\text{F}/10\text{ V}$, $\pm 20\%$, size: 12.5 x 20 mm

Leads: Long

Ordering code: EKA 00FE433C00K

Leads: Short

Ordering code: EKA 05...

For $5 \leq \text{Ø D} \leq 8$ mm

Leads: Bent open, shortened and formed

Ordering code: EKA 09...

For $10 \leq \text{Ø D} \leq 18$ mm

Leads: Shortened and formed

Ordering code: EKA 06 ...

ELECTRICAL DATA AND ORDERING INFORMATION

U_R (V)	C_R 120 Hz (μ F)	NOMINAL CASE SIZE $\varnothing D \times L$ (mm)	$\tan \delta$ 120 Hz	R_{ESR} 120 Hz (Ω)	I_R 120 Hz/85 °C (mA)	WEIGHT (g)	CATALOG NUMBER (LONG LEADS)
6.3	220	5 x 11	0.28	1.69	201	0.45	EKA00AA322B00K
6.3	330	6.3 x 11	0.28	1.13	283	0.50	EKA00BA333B00K
6.3	470	6.3 x 11	0.28	0.790	338	0.50	EKA00BA347B00K
6.3	680	8 x 11.5	0.28	0.546	480	1.2	EKA00PB368B00K
6.3	1000	8 x 11.5	0.28	0.371	581	1.2	EKA00PB410B00K
6.3	2200	10 x 16	0.30	0.181	983	2.3	EKA00DD422B00K
6.3	3300	10 x 20	0.32	0.129	1286	2.8	EKA00DE433B00K
6.3	4700	12.5 x 20	0.36	0.102	1736	4.1	EKA00FE447B00K
6.3	6800	12.5 x 25	0.40	0.078	2129	5.6	EKA00FG468B00K
6.3	10 000	16 x 25	0.46	0.058	2629	7.6	EKA00JG510B00K
6.3	15 000	16 x 35.5	0.56	0.048	2959	11	EKA00JL515B00K
6.3	22 000	18 x 40	0.70	0.041	3733	16	EKA00KK522B00K
6.3	33 000	22 x 41	0.92	0.036	5992	23	EKA00LK533B00K
6.3	39 000	25 x 41	1.04	0.035	7487	29	EKA00PK539B00K
10	220	5 x 11	0.24	1.45	218	0.45	EKA00AA322C00K
10	330	6.3 x 11	0.24	0.965	307	0.50	EKA00BA333C00K
10	470	6.3 x 11	0.24	0.677	366	0.50	EKA00BA347C00K
10	680	8 x 11.5	0.24	0.468	520	1.2	EKA00PB368C00K
10	1000	10 x 12.5	0.24	0.292	659	1.9	EKA00DC410C00K
10	2200	10 x 16	0.26	0.145	1051	2.3	EKA00DD422C00K
10	3300	12.5 x 20	0.28	0.104	1545	4.1	EKA00FE433C00K
10	4700	12.5 x 25	0.32	0.085	1903	5.6	EKA00FG447C00K
10	6800	16 x 25	0.36	0.066	2332	7.6	EKA00JG468C00K
10	10 000	16 x 31.5	0.42	0.053	2830	9.5	EKA00JS510C00K
10	15 000	16 x 35.5	0.52	0.044	3284	11	EKA00JL515C00K
10	22 000	18 x 40	0.66	0.039	3843	16	EKA00KK522C00K
10	33 000	25 x 41	0.88	0.035	6187	29	EKA00PK533C00K
16	100	5 x 11	0.20	2.65	162	0.45	EKA00AA310D00K
16	150	5 x 11	0.20	1.77	198	0.45	EKA00AA315D00K
16	220	6.3 x 11	0.20	1.21	276	0.50	EKA00BA322D00K
16	330	6.3 x 11	0.20	0.804	359	0.50	EKA00BA333D00K
16	470	8 x 11.5	0.20	0.564	476	1.2	EKA00PB347D00K
16	680	8 x 11.5	0.20	0.390	600	1.2	EKA00PB368D00K
16	1000	10 x 12.5	0.20	0.239	796	1.9	EKA00DC410D00K
16	2200	10 x 20	0.22	0.121	1331	2.8	EKA00DE422D00K
16	3300	12.5 x 20	0.24	0.088	1686	4.1	EKA00FE433D00K
16	4700	12.5 x 25	0.28	0.073	2129	5.6	EKA00FG447D00K
16	6800	16 x 25	0.32	0.059	2577	7.6	EKA00JG468D00K
16	10 000	16 x 31.5	0.38	0.048	3176	9.5	EKA00JS510D00K
16	15 000	18 x 35.5	0.48	0.041	3656	13	EKA00KL515D00K
16	22 000	22 x 41	0.62	0.036	4012	23	EKA00LK522D00K
25	68	5 x 11	0.16	3.12	144	0.45	EKA00AA268E00K
25	100	5 x 11	0.16	2.12	181	0.45	EKA00AA310E00K
25	150	6.3 x 11	0.16	1.41	246	0.50	EKA00BA315E00K
25	220	6.3 x 11	0.16	0.965	327	0.50	EKA00BA322E00K
25	330	8 x 11.5	0.16	0.643	431	1.2	EKA00PB333E00K
25	470	10 x 12.5	0.16	0.452	550	1.9	EKA00DC347E00K
25	680	10 x 16	0.16	0.312	754	2.3	EKA00DD368E00K
25	1000	10 x 16	0.16	0.186	942	2.3	EKA00DD410E00K
25	2200	12.5 x 20	0.18	0.096	1542	4.1	EKA00FE422E00K
25	3300	16 x 25	0.20	0.072	2194	7.6	EKA00JG433E00K
25	4700	16 x 25	0.24	0.062	2448	7.6	EKA00JG447E00K
25	6800	18 x 31.5	0.28	0.051	3114	12	EKA00KS468E00K
25	10 000	18 x 40	0.34	0.042	3544	16	EKA00KK510E00K
25	15 000	25 x 41	0.44	0.037	4399	29	EKA00PK515E00K

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/85 °C (mA)	WEIGHT (g)	CATALOG NUMBER (LONG LEADS)
35	47	5 x 11	0.14	3.95	131	0.45	EKA00AA247F00K
35	68	6.3 x 11	0.14	2.73	182	0.50	EKA00BA268F00K
35	100	6.3 x 11	0.14	1.86	220	0.50	EKA00BA310F00K
35	150	8 x 11.5	0.14	1.24	318	1.2	EKA00PB315F00K
35	220	8 x 11.5	0.14	0.844	386	1.2	EKA00PB322F00K
35	330	10 x 12.5	0.14	0.563	549	1.9	EKA00DC333F00K
35	470	10 x 16	0.14	0.395	740	2.3	EKA00DD347F00K
35	680	10 x 20	0.14	0.273	947	2.8	EKA00DE368F00K
35	1000	12.5 x 20	0.14	0.159	1306	4.1	EKA00FE410F00K
35	2200	16 x 25	0.16	0.084	2032	7.6	EKA00JG422F00K
35	3300	16 x 31.5	0.18	0.064	2502	9.5	EKA00JS433F00K
35	4700	16 x 35.5	0.22	0.056	2905	11	EKA00JL447F00K
35	6800	18 x 40	0.26	0.047	3408	16	EKA00KK468F00K
35	10 000	25 x 41	0.32	0.040	3899	29	EKA00PK510F00K
50	33	5 x 11	0.12	4.82	123	0.45	EKA00AA233H00K
50	47	6.3 x 11	0.12	3.39	169	0.50	EKA00BA247H00K
50	68	6.3 x 11	0.12	2.34	203	0.50	EKA00BA268H00K
50	100	8 x 11.5	0.12	1.59	291	1.2	EKA00PB310H00K
50	150	10 x 12.5	0.12	1.06	414	1.9	EKA00DC315H00K
50	220	10 x 12.5	0.12	0.723	501	1.9	EKA00DC322H00K
50	330	10 x 16	0.12	0.482	672	2.3	EKA00DD333H00K
50	470	10 x 20	0.12	0.339	875	2.8	EKA00DE347H00K
50	680	12.5 x 20	0.12	0.234	1235	4.1	EKA00FE368H00K
50	1000	12.5 x 25	0.12	0.133	1633	5.6	EKA00FG410H00K
50	2200	16 x 31.5	0.14	0.072	2220	9.5	EKA00JS422H00K
50	3300	18 x 31.5	0.16	0.056	2765	12	EKA00KS433H00K
50	4700	18 x 40	0.20	0.051	3272	16	EKA00KK447H00K
50	6800	25 x 41	0.24	0.043	4251	29	EKA00PK468H00K
63	1.0	5 x 11	0.10	133	23	0.45	EKA00AA110J00K
63	1.5	5 x 11	0.10	88.4	28	0.45	EKA00AA115J00K
63	2.2	5 x 11	0.10	60.3	34	0.45	EKA00AA122J00K
63	3.3	5 x 11	0.10	40.2	42	0.45	EKA00AA133J00K
63	4.7	5 x 11	0.10	28.2	50	0.45	EKA00AA147J00K
63	6.8	5 x 11	0.10	19.5	60	0.45	EKA00AA168J00K
63	10	5 x 11	0.10	13.3	72	0.45	EKA00AA210J00K
63	15	5 x 11	0.10	8.84	89	0.45	EKA00AA215J00K
63	22	5 x 11	0.10	6.03	108	0.45	EKA00AA222J00K
63	33	6.3 x 11	0.10	4.02	151	0.50	EKA00BA233J00K
63	47	6.3 x 11	0.10	2.82	181	0.50	EKA00BA247J00K
63	68	8 x 11.5	0.10	1.95	256	1.2	EKA00PB268J00K
63	100	8 x 11.5	0.10	1.33	311	1.2	EKA00PB310J00K
63	150	10 x 12.5	0.10	0.884	422	1.9	EKA00DC315J00K
63	220	10 x 16	0.10	0.603	586	2.3	EKA00DD322J00K
63	330	10 x 20	0.10	0.402	784	2.8	EKA00DE333J00K
63	470	12.5 x 20	0.10	0.282	1098	4.1	EKA00FE347J00K
63	680	12.5 x 25	0.10	0.195	1440	5.6	EKA00FG368J00K
63	1000	16 x 25	0.10	0.106	1937	7.6	EKA00JG410J00K
63	2200	18 x 31.5	0.12	0.060	2445	12	EKA00KS422J00K
63	3300	18 x 40	0.14	0.048	2987	16	EKA00KK433J00K
63	4700	25 x 41	0.18	0.045	3412	29	EKA00PK447J00K
100	1.0	5 x 11	0.08	106	23	0.45	EKA00AA110L00K
100	1.5	5 x 11	0.08	70.7	28	0.45	EKA00AA115L00K
100	2.2	5 x 11	0.08	48.2	34	0.45	EKA00AA122L00K
100	3.3	5 x 11	0.08	32.2	42	0.45	EKA00AA133L00K
100	4.7	5 x 11	0.08	22.6	50	0.45	EKA00AA147L00K
100	6.8	5 x 11	0.08	15.6	60	0.45	EKA00AA168L00K

ELECTRICAL DATA AND ORDERING INFORMATION

U_R (V)	C_R 120 Hz (μ F)	NOMINAL CASE SIZE $\varnothing D \times L$ (mm)	$\tan \delta$ 120 Hz	R_{ESR} 120 Hz (Ω)	I_R 120 Hz/85 °C (mA)	WEIGHT (g)	CATALOG NUMBER (LONG LEADS)
100	10	5 x 11	0.08	10.6	76	0.45	EKA00AA210L00K
100	15	6.3 x 11	0.08	7.07	89	0.50	EKA00BA215L00K
100	22	6.3 x 11	0.08	4.82	124	0.50	EKA00BA222L00K
100	33	8 x 11.5	0.08	3.22	178	1.2	EKA00PB233L00K
100	47	8 x 11.5	0.08	2.26	222	1.2	EKA00PB247L00K
100	68	10 x 12.5	0.08	1.56	293	1.9	EKA00DC268L00K
100	100	10 x 16	0.08	1.06	388	2.3	EKA00DD310L00K
100	150	10 x 20	0.08	0.707	528	2.8	EKA00DE315L00K
100	220	12.5 x 20	0.08	0.482	737	4.1	EKA00FE322L00K
100	330	12.5 x 25	0.08	0.322	1002	5.6	EKA00FG333L00K
100	470	16 x 25	0.08	0.226	1328	7.6	EKA00JG347L00K
100	680	16 x 31.5	0.08	0.156	1643	9.5	EKA00JS368L00K
100	1000	18 x 31.5	0.08	0.106	1965	12	EKA00KS410L00K
160	3.3	6.3 x 11	0.15	60.3	45	0.50	EKA00BA133M00K
160	4.7	6.3 x 11	0.15	42.3	53	0.50	EKA00BA147M00K
160	6.8	8 x 11.5	0.15	29.3	76	1.2	EKA00PB168M00K
160	10	8 x 11.5	0.15	19.9	96	1.2	EKA00PB210M00K
160	15	10 x 12.5	0.15	13.3	131	1.9	EKA00DC215M00K
160	22	10 x 12.5	0.15	9.04	156	1.9	EKA00DC222M00K
160	33	10 x 16	0.15	6.03	209	2.3	EKA00DD233M00K
160	47	10 x 20	0.15	4.23	293	2.8	EKA00DE247M00K
160	68	12.5 x 20	0.15	2.93	391	4.1	EKA00FE268M00K
160	100	12.5 x 25	0.15	1.99	516	5.6	EKA00FG310M00K
160	150	16 x 20	0.15	1.33	632	5.7	EKA00JE315M00K
160	220	16 x 25	0.15	0.904	873	7.6	EKA00JG322M00K
160	330	16 x 35.5	0.15	0.603	1152	11	EKA00JL333M00K
160	470	18 x 40	0.15	0.423	1434	16	EKA00KK347M00K
160	680	22 x 41	0.15	0.293	1831	23	EKA00LK368M00K
200	3.3	6.3 x 11	0.15	60.3	45	0.50	EKA00BA133S00K
200	4.7	6.3 x 11	0.15	42.3	57	0.50	EKA00BA147S00K
200	6.8	8 x 11.5	0.15	29.3	76	1.2	EKA00PB168S00K
200	10	8 x 11.5	0.15	19.9	96	1.2	EKA00PB210S00K
200	15	10 x 16	0.15	13.3	143	2.3	EKA00DD215S00K
200	22	10 x 16	0.15	9.04	173	2.3	EKA00DD222S00K
200	33	10 x 20	0.15	6.03	232	2.8	EKA00DE233S00K
200	47	10 x 20	0.15	4.23	293	2.8	EKA00DE247S00K
200	68	12.5 x 25	0.15	2.93	426	5.6	EKA00FG268S00K
200	100	16 x 25	0.15	1.99	516	7.6	EKA00JG310S00K
200	150	16 x 25	0.15	1.33	691	7.6	EKA00JG315S00K
200	220	18 x 31.5	0.15	0.904	962	12	EKA00KS322S00K
200	330	18 x 35.5	0.15	0.603	1206	13	EKA00KL333S00K
200	470	22 x 41	0.15	0.423	1495	23	EKA00LK347S00K
250	3.3	6.3 x 11	0.15	60.3	48	0.50	EKA00BA133N00K
250	4.7	6.3 x 11	0.15	42.3	57	0.50	EKA00BA147N00K
250	6.8	8 x 11.5	0.15	29.3	76	1.2	EKA00PB168N00K
250	10	10 x 12.5	0.15	19.9	107	1.9	EKA00DC210N00K
250	15	10 x 16	0.15	13.3	143	2.3	EKA00DD215N00K
250	22	10 x 16	0.15	9.04	170	2.3	EKA00DD222N00K
250	33	10 x 20	0.15	6.03	247	2.8	EKA00DE233N00K
250	47	12.5 x 20	0.15	4.23	319	4.1	EKA00FE247N00K
250	68	16 x 20	0.15	2.93	425	5.7	EKA00JE268N00K
250	100	16 x 25	0.15	1.99	564	7.6	EKA00JG310N00K
250	150	16 x 31.5	0.15	1.33	726	9.5	EKA00JS315N00K
250	220	18 x 35.5	0.15	0.904	988	13	EKA00KL322N00K
250	330	22 x 41	0.15	0.603	1495	23	EKA00LK333N00K
250	470	25 x 41	0.15	0.423	1612	29	EKA00PK347N00K

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/85 °C (mA)	WEIGHT (g)	CATALOG NUMBER (LONG LEADS)
350	3.3	8 x 11.5	0.20	80.4	53	1.2	EKA00PB133O00K
350	4.7	8 x 11.5	0.20	56.4	66	1.2	EKA00PB147O00K
350	6.8	10 x 12.5	0.20	39.0	88	1.9	EKA00DC168O00K
350	10	10 x 12.5	0.20	26.5	107	1.9	EKA00DC210O00K
350	15	10 x 20	0.20	17.7	156	2.8	EKA00DE215O00K
350	22	12.5 x 20	0.20	12.1	222	4.1	EKA00FE222O00K
350	33	16 x 20	0.20	8.04	297	5.7	EKA00JE233O00K
350	47	16 x 20	0.20	5.64	353	5.7	EKA00JE247O00K
350	68	16 x 25	0.20	3.90	465	7.6	EKA00JG268O00K
350	100	18 x 31.5	0.20	2.65	592	12	EKA00KS310O00K
350	150	18 x 40	0.20	1.77	845	16	EKA00KK315O00K
350	220	22 x 41	0.20	1.21	1112	23	EKA00LK322O00K
400	3.3	8 x 11.5	0.20	80.4	56	1.2	EKA00PB133X00K
400	4.7	10 x 12.5	0.20	56.4	61	1.9	EKA00DC147X00K
400	6.8	10 x 12.5	0.20	39.0	87	1.9	EKA00DC168X00K
400	10	10 x 16	0.20	26.5	115	2.3	EKA00DD210X00K
400	15	12.5 x 20	0.20	17.7	165	4.1	EKA00FE215X00K
400	22	12.5 x 20	0.20	12.1	218	4.1	EKA00FE222X00K
400	33	12.5 x 25	0.20	8.04	296	5.6	EKA00FG233X00K
400	47	16 x 25	0.20	5.64	387	7.6	EKA00JG247X00K
400	68	16 x 31.5	0.20	3.90	488	9.5	EKA00JS268X00K
400	100	18 x 35.5	0.20	2.65	667	13	EKA00KL310X00K
400	150	18 x 40	0.20	1.77	863	16	EKA00KK315X00K
400	220	22 x 45	0.20	1.21	1183	21	EKA00LW322X00K
450	1.0	8 x 11.5	0.20	265	26	1.2	EKA00PB110P00K
450	1.5	8 x 11.5	0.20	177	32	1.2	EKA00PB115P00K
450	2.2	8 x 11.5	0.20	121	33	1.2	EKA00PB122P00K
450	3.3	8 x 11.5	0.20	80.4	50	1.2	EKA00PB133P00K
450	4.7	10 x 12.5	0.20	56.4	72	1.9	EKA00DC147P00K
450	6.8	10 x 16	0.20	39.0	86	2.3	EKA00DD168P00K
450	10	10 x 20	0.20	26.5	115	2.8	EKA00DE210P00K
450	15	12.5 x 20	0.20	17.7	164	4.1	EKA00FE215P00K
450	22	12.5 x 25	0.20	12.1	217	5.6	EKA00FG222P00K
450	33	16 x 25	0.20	8.04	294	7.6	EKA00JG233P00K
450	47	16 x 31.5	0.20	5.64	384	9.5	EKA00JS247P00K
450	68	16 x 35.5	0.20	3.90	503	11	EKA00JL268P00K
450	100	18 x 40	0.20	2.65	546	16	EKA00KK310P00K
450	150	22 x 45	0.20	1.77	1283	21	EKA00LW315P00K
500	4.7	10 x 16	0.20	56.4	69	2.3	EKA00DD147Y00K
500	6.8	10 x 16	0.20	39.0	76	2.3	EKA00DD168Y00K
500	10	12.5 x 25	0.20	26.5	178	5.6	EKA00FG210Y00K
500	22	16 x 25	0.20	12.1	265	7.6	EKA00JG222Y00K
500	33	16 x 31.5	0.20	8.04	310	9.5	EKA00JS233Y00K
500	47	18 x 31.5	0.20	5.64	412	12	EKA00KS247Y00K
500	68	18 x 35.5	0.20	3.90	457	13	EKA00KL268Y00K

LOW TEMPERATURE BEHAVIOR (at 120 Hz)

IMPEDANCE RATIO $Z(T2)/Z(T1)$	RATED VOLTAGE (V)								
T2/T1	6.3	10	16	25	35	50 ~ 100	160	200 ~ 350	400 ~ 500
- 25/+ 20 °C	5	4	3	2	2	2	4	6	12
- 40/+ 20 °C	12	10	8	5	4	3	6	8	-

ADDITIONAL ELECTRICAL DATA

PARAMETER	CONDITIONS	VALUE		
Current				
Laekage current (Test conditions: U _R , 20 °C)	after 1 minute at U _R	I _{L1} ≤ 0.03 x C _R x U _R	or 4 μA	for U _R ≤ 100 V (whichever is greater)
	after 2 minutes at U _R	I _{L2} ≤ 0.01 x C _R x U _R	or 3 μA	for U _R ≤ 100 V (whichever is greater)
	after 5 minutes at U _R	I _{L5} ≤ 0.02 x C _R x U _R	or 15 μA	for U _R > 100 V (whichever is greater)
Resistance				
Equivalent series resistance (ESR)	calculated from tan δ _{max} and C _R	ESR = tan δ/2 πf C _R		

MULTIPLIER OF RIPPLE CURRENT (I_R) AS A FUNCTION OF FREQUENCY

FREQUENCY (Hz)	I_R MULTIPLIER FOR $U_R \leq 100 V$		
	$C_R \leq 47 \mu F$	$C_R = 68$ to $680 \mu F$	$C_R > 1000 \mu F$
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 $\leq 500 V$	
	$C_R = 47$ to $220 \mu F$	$C_R \geq 330 \mu F$
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	$T_{amb} = 85\,^{\circ}C$; 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	$T_{amb} = 85\,^{\circ}C$; 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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