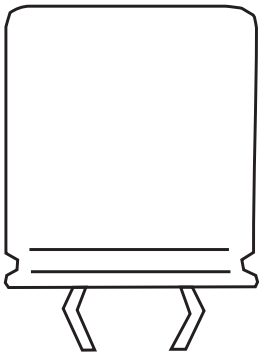
Aluminum Electrolytic Capacitors with Snap-In Leads

High Temperature, 125°C



FEATURES

- Polarized aluminum electrolytic capacitor.
- High ripple current rating.
- Extended temperature range: 125°C.
- Extremely long useful life.

APPLICATIONS

- Industrial, automotive, consumer and telecommunication systems.
- Smoothing, filtering, coupling, decoupling.
- Standard and switch mode power supplies.

SPECIFICATIONS

PARAMETER	UNIT	LOW VOLTAGE	HIGH VOLTAGE
Nominal case size (D x L)	mm	22 x 25 to 35 x 50	
Rated capacity range	µF	330 - 33,000	47 - 1000
Capacity tolerance	%	± 20	± 20
Rated voltage range	V	10 - 100	160 - 400
Temperature range	°C	- 55 to + 125	- 40 to + 125
Endurance test at upper category temperature	h	2000	1000
Useful life at 125°C and I_R	h	3000	2000
Useful life at 85°C and I_R	h	33,000	22,000
Useful life at 40°C and I_R		500,000	500,000
Sectional specifications		IEC 384-4, CECC 30300 LL grade	GP grade
Detail specification		similar to CECC 30301 - 809 without quality assessment	
Climatic category : IEC 68 D IN 40040		55/125/56 FKD	40/125/56 GKD
Failure rate	1E - 9/h	≤ 2	≤ 2

ORDERING EXAMPLE

EYX 3300µF/63V, ± 20%
Sleeve insulation (for UR ≤ 100V) Size: 35 x 40mm

Ordering code: EYX07CB433J01

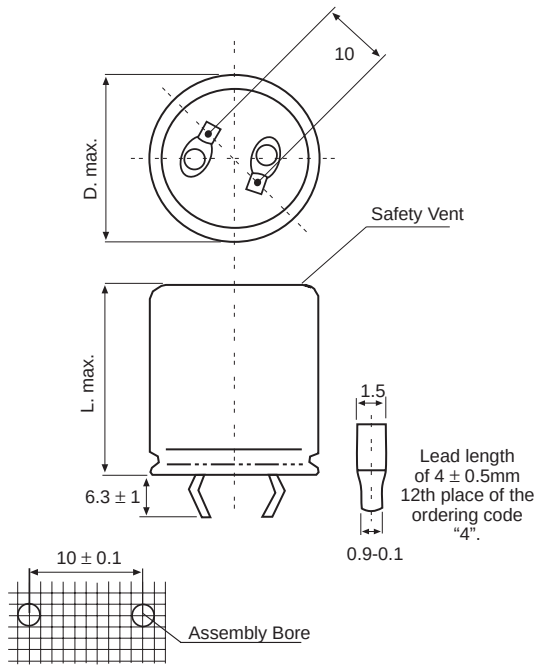
EYX 150µF/400V, ± 20%
Fully insulated (for UR > 100V) Size: 25 x 40mm

Ordering code: EYX07AB315X02

DIMENSIONS - NOMINAL SIZE (D x L) MILLIMETERS

	UR [V]													
CR[µF]	10	16	25	35	40	50	63	100	160	200	250	350	385	400
47													22 x 25	22 x 25
68												22 x 25	22 x 30 25 x 25	22 x 30 25 x 25
100											22 x 25	22 x 30 25 x 25	22 x 35 25 x 30 30 x 25	22 x 40 25 x 30 30 x 25
150										22 x 25	22 x 30 25 x 25	25 x 35 30 x 25	25 x 40 30 x 30 35 x 25	25 x 40 30 x 30 35 x 25
220									22 x 25	22 x 30 25 x 25	22 x 35 25 x 30 30 x 25	25 x 50 30 x 40 35 x 25	30 x 40 35 x 30	30 x 40 35 x 30
330								22 x 25	22 x 35 25 x 30	22 x 40 25 x 30 30 x 25	25 x 40 30 x 30 35 x 25	30 x 45 35 x 40	35 x 40	35 x 40
470								22 x 35 25 x 25	25 x 35 30 x 25	25 x 40 30 x 30 35 x 25	30 x 40 35 x 30	35 x 45		
680						22 x 25	22 x 25	25 x 35 30 x 25	25 x 50 30 x 40 35 x 25	30 x 40 35 x 30	30 x 45 35 x 40			
1000						22 x 30 25 x 25	22 x 35 25 x 30 30 x 25	25 x 50 30 x 40 35 x 30	30 x 45 35 x 40	35 x 40	35 x 50			
1500				22 x 25	22 x 25	22 x 40 25 x 30 30 x 25	25 x 35 30 x 30	30 x 50 35 x 40						
2200			22 x 25	22 x 30 25 x 25	22 x 35 25 x 30 30 x 25	25 x 40 30 x 30 35 x 25	22 x 50 30 x 40 35 x 30	35 x 50						
3300		22 x 25	22 x 30 25 x 25	25 x 30 30 x 25	25 x 40 30 x 30 35 x 25	30 x 40 35 x 30	30 x 50 35 x 40							
4700	22 x 25	22 x 30 25 x 25	25 x 30 30 x 25	25 x 40 30 x 30 35 x 25	25 x 50 30 x 40 35 x 30	35 x 40	35 x 50							
6800	22 x 30 25 x 25	22 x 35 25 x 30 30 x 25	25 x 40 30 x 30 35 x 25	30 x 40 35 x 30	30 x 50 35 x 40									
10000	22 x 35 25 x 30 30 x 25	25 x 40 30 x 30 35 x 25	30 x 40	35 x 40	35 x 50									
15000	25 x 40 30 x 30 35 x 25	30 x 40 35 x 30	35 x 45											
22000	30 x 40 35 x 30	35 x 40						SPECIAL VALUES / DIMENSIONS ON REQUEST						
33000	35 x 40													

SNAP-IN LEAD STYLE



DIMENSIONS MILLIMETERS

NOMINAL SIZE D x L	MAXIMUM SIZE D x L
22 x 25	22.5 x 27.0
22 x 30	22.5 x 32.0
22 x 35	22.5 x 37.0
22 x 40	22.5 x 42.0
25 x 25	25.5 x 27.0
25 x 30	25.5 x 32.0
25 x 35	25.5 x 37.0
25 x 40	25.5 x 42.0
25 x 50	25.5 x 52.0
30 x 25	30.5 x 27.0
30 x 30	30.5 x 32.0
30 x 40	30.5 x 42.0
30 x 45	30.5 x 47.0
30 x 50	30.5 x 52.0
35 x 25	35.5 x 27.0
35 x 30	35.5 x 32.0
35 x 40	35.5 x 42.0
35 x 45	35.5 x 47.0
35 x 50	35.5 x 52.0

LOW TEMPERATURE BEHAVIOR

Calculation table of the maximum 10KHz impedance at low temperatures.

$$Z\ (10KHz)\ (ohm) = \frac{\text{tabular values}}{CR\ (\mu F)}$$

Ta	UR [V]													
C	10	16	25	35	40	50	63	100	160	200	250	350	385	400
- 25	2700	1900	1300	900	660	450	360	300	3250	2750	2100	1500	1400	1250
- 40	7200	5100	3400	2400	1760	1200	960	800	9750	8250	6400	4500	4100	3750
- 55	21600	15400	10000	7200	5300	3600	2900	2400						

In practical operation the lower limit of the series resistance and impedance is given by the ohmic part of the contact points and the foil resistance values. Therefore it will not always be possible to achieve calculated values below 0.03 ohm.

LEAKAGE CURRENT

*Formula of the calculation of maximum leakage current of acceptance tests I_L;

IL5 (μA) < 0.0015* CR (μF)* UR (V) UR ≤ 100V

IL5 (μA) < 0.015* CR (μF)* UR (V) UR ≥ 100V

Test conditions: UR, 20°C, 5 minutes.

*For explanation of technical terms see page 8 of data sheet.

ELECTRICAL SPECIFICATIONS

ORDERING CODE	RATED CAPACITANCE CR 100Hz µF	RATED VOLTAGE UR VDC	DIMENSIONS D x L mm	MAXIMUM DISSIPATION tan d 100Hz	R (ESR) 100Hz Ohm	MAXIMUM IMPEDANCE 10KHz Ohm	RATED RIPPLE CURRENT IR 100HZ/125°C A rms	WEIGHT g
EYX07LU447C01	4700	10	22 x 25	0.23	0.090	0.080	2.2	8.6
EYX07LV468C01	6800	10	22 x 30	0.24	0.065	0.060	2.5	11
EYX07AU468C01	6800	10	25 x 25	0.28	0.075	0.070	2.2	12
EYX07LA510C01	10000	10	22 x 35	0.27	0.050	0.045	2.8	15
EYX07AV510C01	10000	10	25 x 30	0.30	0.055	0.050	2.5	16
EYX07BU510C01	10000	10	30 x 25	0.37	0.070	0.060	2.2	16
EYX07AB515C01	15000	10	25 x 40	0.31	0.040	0.035	3.1	22
EYX07BV515C01	15000	10	30 x 30	0.44	0.055	0.045	2.4	22
EYX07CU515C01	15000	10	35 x 25	0.30	0.035	0.035	3.8	23
EYX07BB522C01	22000	10	30 x 40	0.45	0.040	0.035	3.0	31
EYX07CV522C01	22000	10	35 x 30	0.33	0.030	< 0.030	4.3	31
EYX07CB533C01	33000	10	35 x 40	0.34	< 0.030	< 0.030	5.4	45
EYX07LU433D01	3300	16	22 x 25	0.17	0.090	0.080	2.0	8.7
EYX07LV447D01	4700	16	22 x 30	0.18	0.070	0.060	2.4	11
EYX07AU447D01	4700	16	25 x 25	0.20	0.075	0.070	2.1	12
EYX07LA468D01	6800	16	22 x 35	0.19	0.050	0.045	2.7	15
EYX07AV468D01	6800	16	25 x 30	0.22	0.060	0.050	2.4	15
EYX07BU468D01	6800	16	30 x 25	0.26	0.070	0.060	2.1	16
EYX07AB510D01	10000	16	25 x 40	0.22	0.040	0.035	3.1	22
EYX07BV510D01	10000	16	30 x 30	0.30	0.055	0.045	2.4	22
EYX07CU510D01	10000	16	35 x 25	0.21	0.040	0.035	3.7	22
EYX07BB515D01	15000	16	30 x 40	0.32	0.040	0.035	3.0	31
EYX07CV515D01	15000	16	35 x 30	0.23	0.030	< 0.030	4.2	31
EYX07CB522D01	22000	16	35 x 40	0.24	< 0.030	< 0.030	5.4	44
EYX07LU422E01	2200	25	22 x 25	0.12	0.095	0.080	1.9	9.0
EYX07LV433E01	3300	25	22 x 30	0.13	0.070	0.055	2.2	12
EYX07AU433E01	3300	25	25 x 25	0.15	0.080	0.065	1.9	12
EYX07AV447E01	4700	25	25 x 30	0.16	0.060	0.050	2.2	17
EYX07BU447E01	4700	25	30 x 25	0.19	0.075	0.060	2.0	17
EYX07AB468E01	6800	25	25 x 40	0.16	0.045	0.035	2.9	23
EYX07BV468E01	6800	25	30 x 30	0.22	0.060	0.045	2.3	23
EYX07CU468E01	6800	25	35 x 25	0.15	0.040	0.035	3.4	24
EYX07BB510E01	10000	25	30 x 40	0.13	< 0.030	< 0.030	5.0	33
EYX07CC515E01	15000	25	35 x 45	0.15	< 0.030	< 0.030	5.7	48
EYX07LU415F01	1500	35	22 x 25	0.09	0.110	0.085	1.7	8.7
EYX07LV422F01	2200	35	22 x 30	0.10	0.080	0.060	2.1	12
EYX07AU422F01	2200	35	25 x 25	0.11	0.085	0.070	1.8	12
EYX07AV433F01	3300	35	25 x 30	0.12	0.065	0.050	2.2	16
EYX07BU433F01	3300	35	30 x 25	0.14	0.080	0.060	2.0	17
EYX07AB447F01	4700	35	25 x 40	0.12	0.045	0.035	2.8	22
EYX07BV447F01	4700	35	30 x 30	0.16	0.060	0.045	2.2	22
EYX07CU447F01	4700	35	35 x 25	0.11	0.045	0.035	3.3	23
EYX07BB468F01	6800	35	30 x 40	0.16	0.045	0.035	2.9	31
EYX07CV468F01	6800	35	35 x 30	0.12	0.035	< 0.030	3.8	31
EYX07CB510F01	10000	35	35 x 40	0.12	< 0.030	< 0.030	4.9	44
EYX07LU415G01	1500	40	22 x 25	0.09	0.100	0.070	1.6	10
EYX07LA422G01	2200	40	22 x 35	0.08	0.065	0.050	2.2	15
EYX07AV422G01	2200	40	25 x 30	0.09	0.075	0.055	2.1	15
EYX07BU422G01	2200	40	30 x 25	0.11	0.085	0.065	1.9	15
EYX07AB433G01	3300	40	25 x 40	0.09	0.050	0.035	2.7	21
EYX07BV433G01	3300	40	30 x 30	0.12	0.065	0.050	2.2	21
EYX07CU433G01	3300	40	35 x 25	0.09	0.050	0.035	3.1	22
EYX07AD447G01	4700	40	25 x 50	0.10	0.040	0.030	3.2	29
EYX07BB447G01	4700	40	30 x 40	0.12	0.045	0.035	2.8	29
EYX07CV447G01	4700	40	35 x 30	0.09	0.035	< 0.030	3.7	29
EYX07BD468G01	6800	40	30 x 50	0.13	0.035	< 0.030	3.3	40
EYX07CB468G01	6800	40	35 x 40	0.10	< 0.030	< 0.030	4.8	40
EYX 07CD510G01	10000	40	35 X 50	0.10	< 0.030	< 0.030	5.7	57

ELECTRICAL SPECIFICATIONS

ORDERING CODE	RATED CAPACITANCE CR 100Hz (µF)	RATED VOLTAGE UR VDC	DIMENSIONS D x L mm	MAXIMUM DISSIPATION tan d 100Hz	R (ESR) 100Hz Ohm	MAXIMUM IMPEDANCE 10KHz Ohm	RATED RIPPLE CURRENT IR 100HZ/125°C A rms	WEIGHT g
EYX07LU368H01	680	50	22 x 25	0.06	0.150	0.095	1.3	8.6
EYX07LV410H01	1000	50	22 x 30	0.06	0.105	0.065	1.6	11
EYX07AU410H01	1000	50	25 x 25	0.07	0.115	0.075	1.5	12
EYX07LB415H01	1500	50	22 x 40	0.06	0.070	0.045	2.1	16
EYX07AV415H01	1500	50	25 x 30	0.07	0.080	0.055	1.9	16
EYX07BU415H01	1500	50	30 x 25	0.08	0.095	0.065	1.7	17
EYX07AB422H01	2200	50	25 x 40	0.07	0.060	0.040	2.4	22
EYX07BV422H01	2200	50	30 x 30	0.09	0.075	0.050	2.0	23
EYX07CU422H01	2200	50	35 x 25	0.07	0.055	0.035	2.8	23
EYX07BB433H01	3300	50	30 x 40	0.10	0.050	0.035	2.6	32
EYX07CV433H01	3300	50	35 x 30	0.08	0.040	< 0.030	3.3	32
EYX07CB447H01	4700	50	35 x 40	0.08	0.030	< 0.030	4.3	44
EYX07LU368J01	680	63	22 x 25	0.06	0.150	0.095	1.3	10
EYX07LA410J01	1000	63	22 x 35	0.06	0.105	0.065	1.7	14
EYX07AV410J01	1000	63	25 x 30	0.06	0.110	0.070	1.7	15
EYX07BU410J01	1000	63	30 x 25	0.07	0.120	0.080	1.6	15
EYX07AA415J01	1500	63	25 x 35	0.07	0.080	0.050	2.0	20
EYX07BV415J01	1500	63	30 x 30	0.08	0.090	0.060	1.9	21
EYX07AD422J01	2200	63	25 x 50	0.07	0.055	0.035	2.6	29
EYX07BB422J01	2200	63	30 x 40	0.08	0.060	0.040	2.5	29
EYX07CV422J01	2200	63	35 x 30	0.07	0.055	0.035	3.0	29
EYX07BD433J01	3300	63	30 x 50	0.06	0.035	< 0.030	4.1	42
EYX07CB433J01	3300	63	35 x 40	0.07	0.035	< 0.030	3.9	42
EYX07CD447J01	4700	63	35 x 50	0.07	< 0.030	< 0.030	4.8	58
EYX07LU333L01	330	100	22 x 25	0.06	0.265	0.160	0.97	10
EYX07LA347L01	470	100	22 x 35	0.06	0.185	0.110	1.3	14
EYX07AU347L01	470	100	25 x 25	0.06	0.200	0.125	1.2	13
EYX07AA368L01	680	100	25 x 35	0.06	0.135	0.085	1.6	19
EYX07BU368L01	680	100	30 x 25	0.07	0.160	0.100	1.4	19
EYX07AD410L01	1000	100	25 x 50	0.06	0.095	0.055	2.1	27
EYX07BB410L01	1000	100	30 x 40	0.06	0.100	0.060	2.0	27
EYX07CV410L01	1000	100	35 x 30	0.06	0.090	0.055	2.4	27
EYX07BD415L01	1500	100	30 x 50	0.07	0.070	0.045	2.5	38
EYX07CB415L01	1500	100	35 x 40	0.06	0.065	0.040	3.1	39
EYX07CD422L01	2200	100	35 x 50	0.06	0.045	< 0.030	3.8	54
EYX07LU322M02	220	160	22 x 25	0.12	0.910	0.705	0.79	11
EYX07LA333M02	330	160	22 x 35	0.12	0.605	0.470	1.1	16
EYX07AV333M02	330	160	25 x 30	0.13	0.615	0.480	1.1	16
EYX07AA347M02	470	160	25 x 35	0.13	0.435	0.345	1.3	22
EYX07BU347M02	470	160	30 x 25	0.14	0.470	0.375	1.2	22
EYX07AD368M02	680	160	25 x 50	0.13	0.300	0.235	1.7	31
EYX07BB368M02	680	160	30 x 40	0.13	0.310	0.245	1.7	31
EYX07CU368M02	680	160	35 x 25	0.15	0.370	0.295	1.3	30
EYX07BC410M02	1000	160	30 x 45	0.14	0.225	0.175	2.0	43
EYX07CB410M02	1000	160	35 x 40	0.14	0.230	0.185	2.0	44
EYX07LU315S02	150	200	22 x 25	0.11	1.125	0.830	0.66	10
EYX07LV322S02	220	200	22 x 30	0.11	0.770	0.570	0.84	14
EYX07AU322S02	220	200	25 x 25	0.11	0.785	0.580	0.84	14
EYX07LB333S02	330	200	22 x 40	0.11	0.515	0.380	1.1	19
EYX07AV333S02	330	200	25 x 30	0.11	0.530	0.395	1.0	19
EYX07BU333S02	330	200	30 x 25	0.11	0.550	0.415	1.1	20
EYX07AB347S02	470	200	25 x 40	0.11	0.375	0.280	1.4	26
EYX07BV347S02	470	200	30 x 30	0.12	0.395	0.300	1.3	27
EYX07CU347S02	470	200	35 x 25	0.12	0.425	0.325	1.2	27
EYX07BB368S02	680	200	30 x 40	0.12	0.275	0.210	1.6	37
EYX07CV368S02	680	200	35 x 30	0.13	0.305	0.235	1.4	37
EYX07CB410S02	1000	200	35 x 40	0.13	0.210	0.165	1.9	53

ELECTRICAL SPECIFICATIONS

ORDERING CODE	RATED CAPACITANCE CR 100Hz µF	RATED VOLTAGE UR VDC	DIMENSIONS D x L mm	MAXIMUM DISSIPATION tan d 100Hz	R (ESR) 100Hz Ohm	MAXIMUM IMPEDANCE 10KHz Ohm	RATED RIPPLE CURRENT IR 100HZ/125°C A rms	WEIGHT g
EYX07LU310N02	100	250	22 x 25	0.09	1.410	0.970	0.54	9.1
EYX07LV315N02	150	250	22 x 30	0.09	0.945	0.650	0.70	12
EYX07AU315N02	150	250	25 x 25	0.09	0.960	0.660	0.71	13
EYX07LA322N02	220	250	22 x 35	0.09	0.650	0.450	0.88	17
EYX07AV322N02	220	250	25 x 30	0.09	0.660	0.455	0.89	17
EYX07BU322N02	220	250	30 x 25	0.09	0.675	0.470	0.92	18
EYX07AB333N02	330	250	25 x 40	0.09	0.445	0.305	1.2	25
EYX07BV333N02	330	250	30 x 30	0.10	0.465	0.325	1.1	25
EYX07CU333N02	330	250	35 x 25	0.10	0.485	0.345	1.1	25
EYX07BB347N02	470	250	30 x 40	0.10	0.325	0.230	1.5	34
EYX07CV347N02	470	250	35 x 30	0.10	0.355	0.255	1.3	34
EYX07BC368N02	680	250	30 x 45	0.10	0.235	0.170	1.7	47
EYX07CB368N02	680	250	35 x 40	0.10	0.245	0.175	1.7	48
EYX07CD410N02	1000	250	35 x 50	0.11	0.175	0.125	2.1	68
EYX07LU268O02	68	350	22 x 25	0.07	1.720	1.065	0.45	10
EYX07LV310O02	100	350	22 x 30	0.07	1.175	0.730	0.57	14
EYX07AU310O02	100	350	25 x 25	0.08	1.190	0.740	0.58	14
EYX07AA315O02	150	350	25 x 35	0.08	0.790	0.490	0.78	20
EYX07BU315O02	150	350	30 x 25	0.08	0.820	0.520	0.77	20
EYX07AD322O02	220	350	25 x 50	0.08	0.540	0.335	1.0	28
EYX07BB322O02	220	350	30 x 40	0.08	0.550	0.345	1.1	28
EYX07CU322O02	220	350	35 x 25	0.08	0.600	0.390	1.0	28
EYX07BC333O02	330	350	30 x 45	0.08	0.375	0.240	1.3	40
EYX07CB333O02	330	350	35 x 40	0.08	0.385	0.245	1.4	41
EYX07CC347O02	470	350	35 x 45	0.08	0.280	0.185	1.6	55
EYX07LU247R02	47	385	22 x 25	0.07	2.405	1.455	0.37	8.7
EYX07LV268R02	68	385	22 x 30	0.07	1.665	1.010	0.47	12
EYX07AU268R02	68	385	25 x 25	0.07	1.675	1.015	0.48	12
EYX07LA310R02	100	385	22 x 35	0.07	1.140	0.690	0.60	16
EYX07AV310R02	100	385	25 x 30	0.07	1.145	0.695	0.62	16
EYX07BU310R02	100	385	30 x 25	0.07	1.160	0.710	0.65	16
EYX07AB315R02	150	385	25 x 40	0.07	0.765	0.465	0.81	23
EYX07BV315R02	150	385	30 x 30	0.07	0.785	0.485	0.82	23
EYX07CU315R02	150	385	35 x 25	0.08	0.805	0.500	0.84	23
EYX07BB322R02	220	385	30 x 40	0.08	0.535	0.330	1.1	32
EYX07CV322R02	220	385	35 x 30	0.08	0.565	0.355	1.0	32
EYX07CB333R02	330	385	35 x 40	0.08	0.380	0.240	1.4	46
EYX07LU247X02	47	400	22 x 25	0.07	2.345	1.400	0.37	9.0
EYX07LV268X02	68	400	22 x 30	0.07	1.625	0.970	0.47	12
EYX07AU268X02	68	400	25 x 25	0.07	1.635	0.980	0.49	12
EYX07LB310X02	100	400	22 x 40	0.07	1.110	0.660	0.62	17
EYX07AV310X02	100	400	25 x 30	0.07	1.120	0.670	0.61	16
EYX07BU310X02	100	400	30 x 25	0.07	1.135	0.685	0.65	17
EYX07AB315X02	150	400	25 x 40	0.07	0.750	0.450	0.81	23
EYX07BV315X02	150	400	30 x 30	0.07	0.770	0.465	0.82	24
EYX07CU315X02	150	400	35 x 25	0.08	0.790	0.485	0.84	24
EYX07BB322X02	220	400	30 x 40	0.07	0.525	0.320	1.1	33
EYX07CV322X02	220	400	35 x 30	0.08	0.555	0.345	1.0	33
EYX07CB333X02	330	400	35 x 40	0.08	0.375	0.235	1.4	48

OPERATING LIFE TABLE

Interrelation between alterating current, ambient temperature and life time.

$U_R \leq 100$ VDC

I/IR FREQUENCY - DEPENDENT								LIFE TIME MULTIPLIER L (DEPENDING ON I/IR AND Ta)											
3.89	4.40	4.51	4.83	5.00	5.11	5.25	38	1.2											
3.71	4.20	4.30	4.61	4.78	4.88	5.01	35	1.9	1.2										
3.53	4.00	4.10	4.39	4.55	4.65	4.78	32	2.9	1.8	1.1									
3.36	3.80	3.89	4.17	4.32	4.42	4.54	29	4.4	2.6	1.6									
3.18	3.60	3.69	3.95	4.09	4.18	4.30	26	6.5	3.8	2.3	1.3								
3.00	3.40	3.48	3.73	3.87	3.95	4.06	24	9.6	5.6	3.2	1.9	1.1							
2.83	3.20	3.28	3.51	3.64	3.72	3.82	21	14	7.9	4.5	2.6	1.5							
2.65	3.00	3.07	3.29	3.41	3.49	3.58	19	21	11	6.2	3.5	2.0	1.1						
2.47	2.80	2.87	3.07	3.18	3.25	3.34	16	30	16	8.5	4.7	2.6	1.5						
2.30	2.60	2.66	2.85	2.96	3.02	3.10	14	42	22	12	6.2	3.4	1.9	1.1					
2.12	2.40	2.46	2.63	2.73	2.79	2.87	12	59	30	15	8.1	4.4	2.4	1.4	1.0				
1.94	2.20	2.25	2.41	2.50	2.56	2.63	11	82	40	20	11	5.6	3.0	1.7	1.3				
1.77	2.00	2.05	2.19	2.27	2.32	2.39	9.0	112	54	26	13	7.0	3.7	2.1	1.5	1.2			
1.59	1.80	1.84	1.98	2.05	2.09	2.15	7.4	149	70	34	17	8.6	4.5	2.5	1.8	1.4	1.0		
1.41	1.60	1.64	1.76	1.82	1.86	1.91	6.0	195	89	42	21	10	5.4	2.9	2.2	1.6	1.2		
1.24	1.40	1.43	1.54	1.59	1.63	1.67	4.7	252	113	52	25	12	6.4	3.4	2.5	1.9	1.4	1.05	
1.06	1.20	1.23	1.32	1.36	1.39	1.43	3.6	316	138	63	30	15	7.5	3.9	2.9	2.1	1.6	1.19	
0.88	1.00	1.02	1.10	1.14	1.16	1.19	2.6	383	165	74	35	17	8.5	4.4	3.2	2.4	1.8	1.32	1.00
0.71	0.80	0.82	0.88	0.91	0.93	0.96	1.7	460	193	85	39	19	9.5	4.9	3.6	2.6	1.9	1.45	1.09
0.53	0.60	0.61	0.66	0.68	0.70	0.72	1.0	529	221	96	44	21	10	5.3	3.9	2.8	2.1	1.56	1.17
0.35	0.40	0.41	0.44	0.45	0.46	0.48	0.5	591	244	105	48	22	11	5.7	4.1	3.0	2.2	1.64	1.23
0.18	0.20	0.20	0.22	0.23	0.23	0.24	0.1	639	260	111	50	24	12	5.9	4.3	3.1	2.3	1.71	1.27
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	656	266	114	51	24	12	6.0	4.4	3.2	2.3	1.73	1.29
50	100	120	250	500	1000	> 2500	SURFACE TEMPERATURE RISE dTo °C	40	50	60	70	80	90	100	105	110	115	120	125
FREQUENCY Hz								**AMBIENT TEMPERATURE Ta °C**											

$U_R >$ 100VDC

I/IR FREQUENCY - DEPENDENT								LIFE TIME MULTIPLIER L (DEPENDING ON I/IR AND Ta)											
3.30	4.20	4.43	5.30	5.91	6.31	6.59	39	1.1											
3.14	4.00	4.22	5.04	5.63	6.01	6.28	36	1.6	1.1										
2.99	3.80	4.01	4.79	5.35	5.71	5.96	33	2.5	1.7	1.1									
2.83	3.60	3.80	4.54	5.06	5.41	5.65	30	3.7	2.4	1.6	1.0								
2.67	3.40	3.59	4.29	4.78	5.11	5.33	27	5.5	3.5	2.2	1.4								
2.52	3.20	3.38	4.03	4.50	4.80	5.02	25	8.0	5.1	3.1	1.9	1.2							
2.36	3.00	3.17	3.78	4.22	4.50	4.71	22	12	7.3	4.4	2.7	1.6	1.0						
2.20	2.80	2.96	3.53	3.94	4.20	4.39	20	17	10	6.1	3.6	2.1	1.3						
2.04	2.60	2.75	3.28	3.66	3.90	4.08	18	25	15	8.4	4.9	2.8	1.7	1.0					
1.89	2.40	2.53	3.03	3.38	3.60	3.77	15	35	20	11	6.5	3.7	2.1	1.2					
1.73	2.20	2.32	2.77	3.09	3.30	3.45	13	50	28	15	8.5	4.7	2.7	1.5	1.2				
1.57	2.00	2.11	2.52	2.81	3.00	3.14	11	71	38	21	11	6.0	3.3	1.9	1.4	1.1			
1.41	1.80	1.90	2.27	2.53	2.70	2.82	9.7	98	52	27	14	7.6	4.1	2.3	1.7	1.3	1.0		
1.26	1.60	1.69	2.02	2.25	2.40	2.51	8.0	135	69	35	18	9.4	5.0	2.7	2.0	1.5	1.2		
1.10	1.40	1.48	1.77	1.97	2.10	2.20	6.4	183	90	44	22	11	6.0	3.2	2.4	1.8	1.3	1.02	
0.94	1.20	1.27	1.51	1.69	1.80	1.88	4.9	243	115	55	27	14	7.0	3.8	2.8	2.1	1.5	1.16	
0.79	1.00	1.06	1.26	1.41	1.50	1.57	3.6	315	144	67	32	16	8.2	4.3	3.2	2.3	1.7	1.30	1.00
0.63	0.80	0.84	1.01	1.13	1.20	1.26	2.4	398	175	80	38	18	9.2	4.8	3.5	2.6	1.9	1.43	1.08
0.47	0.60	0.63	0.76	0.84	0.90	0.94	1.5	485	207	92	42	20	10	5.3	3.8	2.8	2.1	1.54	1.16
0.31	0.40	0.42	0.50	0.56	0.60	0.63	0.7	565	236	103	47	22	11	5.6	4.1	3.0	2.2	1.63	1.22
0.16	0.20	0.21	0.25	0.28	0.30	0.31	0.2	631	258	111	50	24	12	5.9	4.3	3.1	2.3	1.70	1.27
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	656	266	114	51	24	12	6.0	4.4	3.2	2.3	1.73	1.29
50	100	120	250	500	1000	> 2500	SURFACE TEMPERATURE RISE dTo °C	40	50	60	70	80	90	100	105	110	115	120	125
FREQUENCY Hz								**AMBIENT TEMPERATURE Ta °C**											

IR	=	100Hz Rated ripple current (a rms) at upper category temperature taken from data sheet.
I	=	User ripple current.
Ta	=	Ambient temperature of capacitor (°C).
dTo	=	Surface temperature rise of capacitor caused by ripple current load (°C)
L	=	Lifetime multiplier.

TECHNICAL AND ORDERING INFORMATION

If not indicated otherwise the following test conditions apply to all electrical parameters:

Ta	=	20°C	tand	=	Maximum dissipation factor at 100Hz
p	=	80 - 120kPa	R (ESR)	=	Maximum equivalent series resistance at 100Hz
RF	=	45 - 75%	Z	=	Maximum impedance at 10KHz
CR	=	Rated capacitance at 100Hz	IR	=	Rated ripple current at 100Hz and upper category temperature
UR	=	Rated Voltage			

PACKAGING

*Packaging Units

SIZE CODES	SIZE	PU	SIZE CODES	SIZE	PU
LU	22 * 25	216	BV	30 * 30	168
LV	22 * 30	216	BB	30 * 40	112
LA	22 * 35	216	BC	30 * 45	112
LB	22 * 40	144	BD	30 * 50	112
AU	25 * 25	216	CU	35 * 25	126
AV	25 * 30	216	CV	35 * 30	126
AA	25 * 35	216	CB	35 * 40	84
AB	25 * 40	144	CC	35 * 45	84
AD	25 * 50	144	CD	35 * 50	84
BU	30 * 25	168			

*6th and 7th place of the Ordering code.

The products listed are not generally recommended for use in life support systems where a failure or malfunction of the component may directly threaten life or cause injury. The user of products in such applications assumes all risks of such use and will agree to hold Vishay Intertechnology, Inc. and all the companies represented harmless against all damages.

All details in printed form are legally binding especially with respect to the provisions of §§ 463 and 480 II of the German Code of Civil Law after written confirmation only. The data indicated herein describes the type of component and shall not be considered as assured characteristics. Specifications subject to change without notice.