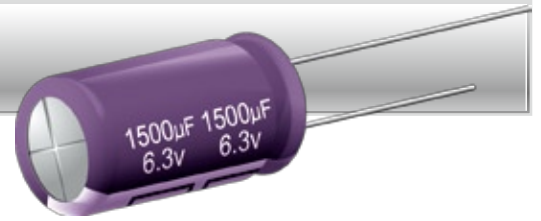
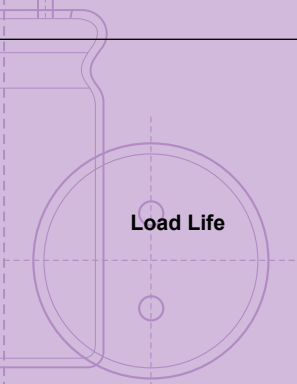


## FEATURES

High Ripple Current



## SPECIFICATION

Item	Characteristic								
Operation Temperature Range	-40 to + 105°C								
Rated Working Voltage	6.3 - 100 V.DC								
Capacitance Tolerance (120Hz 20°C)	±20% (120Hz)								
Leakage Current (120Hz 20°C)	I ≤ 0.01CV After 2 minutes					I : Leakage Current(μA) C : Rated Capacitance(μF) V : Rated Voltage(V)			
Dissipation Factor (120Hz 20°C) (tanδ)	WV	6.3	10	16	25	35	50	63	100
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
 Load Life	After 1000 hours application of WV at +105°C the capacitors shall meet the following requirement. Other life test at conditions stated in the table below.								
	Capacitance Change	≤ ±25% of initial value	Case Dia		Life Time (hrs)				
			L ≥ 11	Ø D=6.8	2000				
	Dissipation Factor	≤ 200% of initial specified value	L ≥ 16	Ø D=10	3000				
	Leakage Current	≤ initial specified value	L ≥ 21	Ø D=13	4000				

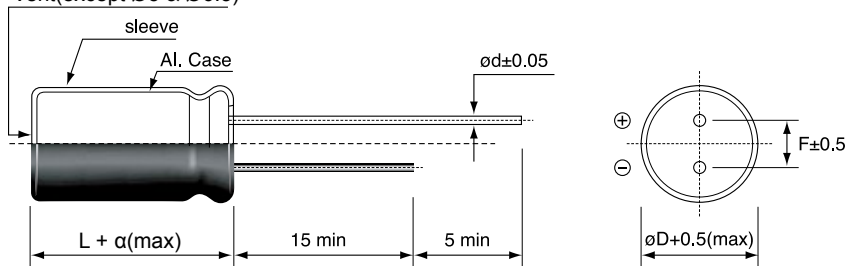
## RIPPLE CURRENT FOR FREQUENCY MULTIPLIERS

Frequency (Hz)	60	120	1K	10K	100K
CAP(µF)					
6.8-33	0.45	0.55	0.75	0.90	1.00
39-330	0.60	0.70	0.85	0.95	1.00
390-1000	0.65	0.75	0.90	0.98	1.00
1200-18000	0.75	0.80	0.95	1.00	1.00

## DIMENSIONS (mm)

D	5	6.3	8	10	13	16	18
d	0.5		0.5	0.6		0.8	
F	2.0	2.5	3.5	5.0		7.5	
$\alpha$	1.5		2.0				

Vent(except Ø5 & Ø6.3)



## CASE SIZE &amp; MAX RIPPLE CURRENT

Size  $\varnothing$ DXL(mm), Ripple Current (mA r.m.s./105°C, 100kHz)

Rated voltage 6.3V / 0J			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
150	5x11	210	0.580
330	6.3x11	340	0.220
470	6.3x11	350	0.240
680	8x11	640	0.130
820	10x12	865	0.080
1000	8x12 / 8x12	840	0.087
1200	8x20	1050	0.069
	10x16	1210	0.060
1500	10x20	1400	0.046
1800	13x16	1450	0.049
2200	10x25	1650	0.042
2700	10x25	1910	0.031
	16x16	1940	0.042
3300	13x21	1900	0.035
3900	13x25	2230	0.027
4700	13x30	2650	0.024
5600	13x35	2880	0.020
6800	13x40	3350	0.017
	16x26	2930	0.021
8200	16x32	3450	0.017
10000	16x36	3610	0.015

Rated voltage 10V / 1A			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
100	5x11	210	0.580
220	6.3x7 / 6.3x11	245 / 340	0.400 / 0.220
470	8x11	640	0.130
680	8x14	840	0.087
	10x12	865	0.080
1000	8x20 / 10x12	1050	0.069
	10x16	1210	0.060
1200	10x20	1400	0.046
1500	10x25	1650	0.042
2200	10x25	1910	0.031
	13x21	1900	0.035
2700	18x16	2210	0.043
3300	13x25	2230	0.027
3900	13x30	2650	0.024
4700	13x35	2880	0.020
5600	13x40	3350	0.017
	16x26	2930	0.021
6800	16x32	3450	0.017
8200	16x36	3610	0.015

Rated voltage 16V / 1C			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
56	5x11	210	0.580
100	6.3x11	340	0.220
120	6.3x11	340	0.220
220	6.3x11	340	0.220
330	8x11	640	0.130
470	8x12 / 8x14	596 / 840	0.110 / 0.087
	10x12	865	0.080
680	8x20	1050	0.069
	10x16	1210	0.060
1000	10x20	1400	0.046
	13x16	1450	0.049
1200	10x25	1650	0.042
1500	10x25	1910	0.031
	13x21	1900	0.035
	16x16	1940	0.042
2200	13x25	2230	0.027
2700	13x30	2650	0.024
3300	13x35	2880	0.020
3900	13x41	3350	0.017
4700	16x32	3450	0.017
	18x25	3140	0.019
5600	16x36	3610	0.015
6800	16x42	4080	0.013
8200	18x36	4220	0.014

Rated voltage 25V / 1E			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
47	5x11	210	0.580
100	6.3x11	340	0.220
220	8x11	640	0.130
330	8X14	840	0.087
	10x16	865	0.080
470	8X20	1050	0.069
	10x15	1210	0.060
680	10x20	1400	0.046
	13X16	1450	0.049
820	10x25	1650	0.042
1000	10x25	1910	0.031
	13X21	1900	0.035
1200	18x16	2210	0.043
1500	10x25 / 13x25	1910 / 2230	0.031 / 0.027
1800	13x30	2650	0.024
2200	13x35 / 16x16	2880	0.020
2700	13x41	3350	0.017
3300	16x32	3450	0.017
3900	16x36	3610	0.015
4700	16x42	4080	0.013
	18X36	4220	0.014
5600	18x42	4280	0.012

Rated voltage 35V / 1V			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
33	5x11	210	0.580
56	6.3x11	340	0.220
150	8x11	640	0.130
220	8x14	840	0.087
	10x12	865	0.080
270	8x20	1050	0.069
330	10x16	1210	0.060
470	10x20	1400	0.046
	13x16	1450	0.049
560	10x25	1650	0.042
680	10x25	1910	0.031
	13x21	1900	0.035
1000	13x16 / 13x25	2230	0.027
1200	13x30	2650	0.024
1500	13x35	2880	0.020
1800	13x41	3350	0.017
	16x26	2930	0.021
2200	16x32	3450	0.017
2700	16x36	3610	0.015
3300	16x42	4080	0.013

Rated voltage 50V / 1H			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
22	5x11	180	0.70
56	6.3x11	295	0.30
100	8x11	555	0.17
120	8x14	730	0.12
150	10x12	760	0.12
180	8x20	910	0.091
220	10x16	1050	0.084
270	10x20	1220	0.060
	13x16	1260	0.061
330	10x25	1440	0.055
470	10x25	1690	0.043
	13x21	1660	0.045
	16x16	1690	0.055
560	13x25	1950	0.034
680	13x30	2310	0.030
820	13x35	2510	0.025
1000	13x41	2920	0.021
	16x26	2555	0.025
1200	16x32	3010	0.022
1500	16x36	3150	0.019
1800	16x42	3710	0.016

Rated voltage 63V / 1J			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
15	5x11	55	2.300
33	6.3x11	115	1.200
56	8x11	232	0.630
82	8x14	300	0.450
	10x12	288	0.430
120	8x20	362	0.330
	10x16	357	0.310
180	10x20	466	0.210
	13x16	466	0.230
220	10x25	531	0.200
270	10x25	663	0.150
	13x21	690	0.160
	16x16	795	0.140
330	13x25	784	0.120
470	13x30	905	0.100
	16x21	1040	0.091
560	13x35	1050	0.083
680	13x41	1180	0.071
820	16x32	1570	0.054
1000	16x36	1790	0.045
1200	16x42	2020	0.040

Rated voltage 100V / 2A			
Cap (μF)	Case Size (mm)	Ripple Current (mA)	Impedance 20°C 100kHz (Ω Max.)
6.8	5x11	55	2.300
15	6.3x11	115	1.200
27	8x11	232	0.630
39	8x14	300	0.450
47	10x12	288	0.430
56	8x20	362	0.330
82	10x20	466	0.210
	13x16	466	0.230
100	10x25	531	0.200
120	13x21	690	0.160
150	16x16	795	0.140
180	13x25	784	0.120
220	13x30	905	0.100
270	13x35	1050	0.083
	16x26	1250	0.073
330	13x41	1180	0.071
390	16x32	1570	0.054
470	16x36	1790	0.045
560	16x42	2020	0.040