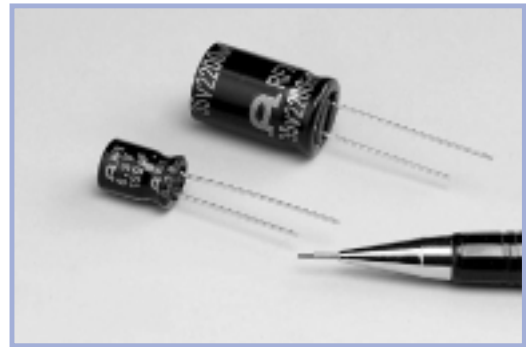


RFX SERIES

Low Z, High Ripple Current, Radial Leads

Features

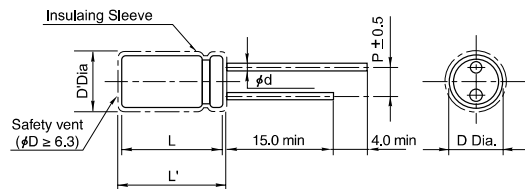
- Low impedance at high frequency (Lower than RFS)
- Large permissible ripple current
- For switching mode power supply
- Load life of 4000 hours at 105°C



Specifications

Item	Performance Characteristics									
Operating temperature range	- 40°C ~ +105°C									
Rated working voltage range	6.3V ~ 100V									
Nominal capacitance range	22μF ~ 6800μF, ±20% (at 20°C, 120Hz)									
D.C Leakage current(at 20°C)	The following specifications shall be satisfied when the rated voltage is applied for the required time. $I \leq 0.01CV(1 \text{ min})$ or $3\mu A(2 \text{ min})$, whichever is greater Where I =Leakage current(μA) C=Nominal capacitance(μF) V=Rated voltage(V)									
Tan δ (max., at 20°C, 120Hz)	W.V(V)	6.3	10	16	25	35	50	63	100	
	Tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	
	When capacitance is over 1000μF, Tan δ shall be added 0.02 to the listed value with increase of every each 1000μF									
Characteristics at low temperature (max.) (impedance ratio at 120Hz)	W.V(V)	6.3 ~ 10			16 ~ 35			50 ~ 100		
	Z - 40°C/Z +20°C	3			3			3		
Load life	After applying rated working voltage for 4000 hours(5, 6.3 : 2000 hours, 8 : 3000 hours) at +105°C and then being stabilized at +20°C, capacitors shall meet following limits.									
	Capacitance change	Within ± 25% of the initial measured value								
	Tan δ	≤ 200% of the initial specified value								
	Leakage current	≤ The initial specified value								
Shelf life	After storage for 1000 hours at +105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.									
	Capacitance change	Within ± 25% of the initial measured value								
	Tan δ	≤ 200% of the initial specified value								
	Leakage current	≤ 200% of the initial specified value								

Dimensions



Ripple current coefficient

• Frequency

Cap(μF) \ Freq(Hz)	120	1K	10K	100K
Cap ≤ 33	0.42	0.70	0.90	1.0
33 < Cap ≤ 330	0.50	0.73	0.92	1.0
330 < Cap ≤ 1000	0.55	0.77	0.94	1.0
1000 < Cap	0.60	0.80	0.96	1.0

• Standard lead style

D	5.0	6.3	8.0	10.0	12.5	16.0
P	2.0	2.5	3.5	5.0		7.5
d	0.5			0.6		0.8

D'=[D +0.5] Max.

L'=[L+1.0] Max. at D≤8.0

L'=[L+1.5]Max. at D≥10.0

• Temperature

Temperature	≤ 70°C	85°C	105°C
Factor	2.1	1.7	1.0

RFX SERIES

Standard Ratings[Dimensions, Impedance, Ripple Current]

D x L(mm)

Cap(μF)	W.V(V)	6.3(0J)			10(1A)			16(1C)			25(1E)		
		SIZE	Z	I _R	SIZE	Z	I _R	SIZE	Z	I _R	SIZE	Z	I _R
47							5 x 11	0.30	250	5 x 11	0.03	250	
100					5 x 11	0.30	250	6.3 x 11	0.013	405	6.3 x 11	0.13	405
150		5 x 11	0.30	250	6.3 x 11	0.13	405	6.3 x 11	0.013	405	8 x 11.5	0.072	760
220		6.3 x 11	0.13	405	6.3 x 11	0.13	405	8 x 11.5	0.072	760	8 x 11.5	0.072	760
330		6.3 x 11	0.13	405	8 x 11.5	0.072	760	8 x 11.5	0.072	760	10 x 12.5	0.053	1030
470		8 x 11.5	0.072	760	8 x 11.5	0.072	760	10 x 12.5	0.053	1030	10 x 16	0.038	1430
680		10 x 12.5	0.053	1030	10 x 12.5	0.053	1030	10 x 16	0.038	1430	10 x 20	0.023	1820
1000		10 x 12.5	0.053	1030	10 x 16	0.038	1430	10 x 20	0.023	1820	12.5 x 20	0.021	2360
1200		10 x 16	0.038	1430	10 x 20	0.023	1820	10 x 20	0.023	1820	12.5 x 25	0.019	2650
1500		10 x 20	0.023	1820	10 x 20	0.023	1820	12.5 x 20	0.021	2350	12.5 x 25	0.018	2770
2200		10 x 20	0.023	1820	12.5 x 20	0.021	2360	12.5 x 25	0.018	2770	16 x 25	0.016	3460
3300		12.5 x 20	0.021	2360	12.5 x 25	0.018	2770	16 x 25	0.016	3460	16 x 31.5	0.015	3680
4700		12.5 x 25	0.018	2770	16 x 25	0.016	3460						
6800		16 x 25	0.016	3460									

Cap(μF)	W.V(V)	35(1V)			50(1H)			63(1J)			100(2A)		
		SIZE	Z	I _R	SIZE	Z	I _R	SIZE	Z	I _R	SIZE	Z	I _R
22					5 x 11	0.34	238	6.3 x 11	0.30	270	8 x 11.5	0.30	360
33		5 x 11	0.30	250	6.3 x 11	0.13	405	6.3 x 11	0.30	270	10 x 12.5	0.25	460
47		6.3 x 11	0.13	405	6.3 x 11	0.13	405	8 x 11.5	0.20	500	10 x 16	0.20	600
100		8 x 11.5	0.072	760	8 x 11.5	0.074	724	10 x 16	0.10	950	12.5 x 20	0.10	1050
150		8 x 11.5	0.072	760	10 x 12.5	0.061	979	10 x 20	0.08	1100	12.5 x 25	0.070	1200
220		10 x 12.5	0.053	1030	10 x 16	0.042	1370	12.5 x 20	0.07	1300	16 x 25	0.060	1650
330		10 x 16	0.038	1430	10 x 20	0.028	1870	12.5 x 20	0.04	1495	16 x 31.5	0.040	1770
470		10 x 20	0.023	1820	12.5 x 20	0.027	2050	12.5 x 25	0.035	1900	18 x 40	0.030	2080
680		12.5 x 20	0.021	2360	12.5 x 25	0.021	2860	16 x 25	0.030	2780			
1000		12.5 x 25	0.018	2770	16 x 25	0.021	3010	16 x 35.5	0.020	2840			
1500		16 x 25	0.016	3460									
2200													

I_R : Maximum permissible ripple current[mA(rms) at 105°C,100KHz]
 Z : Max. Impedance[Ω at 20°C,100KHz]

Low Z