

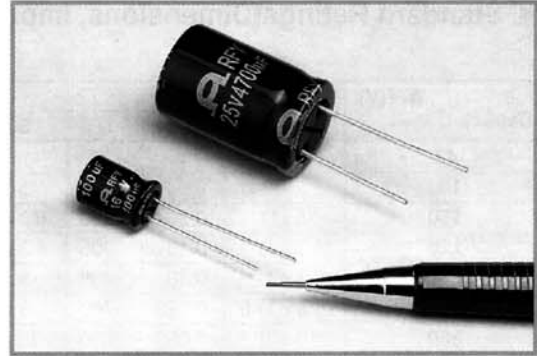


RFY SERIES

Extremely Low Z, High Ripple Current, Radial Leads

Features

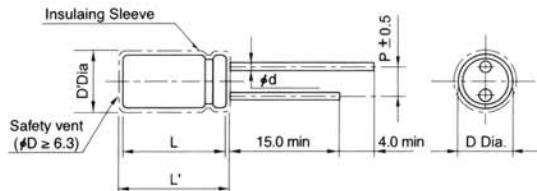
- Extremely low ESR at high frequency(Lower than RFX)
- For switching mode power supply
- Load life of 2000 hours at 105°C



Specifications

Item	Performance Characteristics			
Operating temperature range	-40°C ~ +105°C			
Rated working voltage range	6.3V ~ 16V			
Nominal capacitance range	470 μ F ~ 3300 μ F, \pm 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. $I \leq 0.03CV(2 \text{ min})$ Where I =Leakage current(μ A) C=Nominal capacitance(μ F) V=Rated voltage(V)			
Tan δ (max., at 20°C, 120Hz)	W.V(V)	6.3	10	16
	Tan δ	0.22	0.19	0.16
When capacitance is over 1000 μ F, Tan δ shall be added 0.02 to the listed value with increase of every each 1000 μ F.				
Characteristics at low temperature (max.) (impedance ratio at 120Hz)	W.V(V)	6.3	10	16
	Z-40°C/Z+20°C	3	3	3
Load life	After applying rated working voltage for 2000 hours at +105°C and then being stabilized at +20°C, capacitors shall meet following limits.			
	Capacitance change	Within \pm 25% of the initial measured value		
	Tan δ	\leq 200% of the initial specified value		
	Leakage current	\leq 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 \pm 25% of the initial measured value		
	Tan δ	\leq 200% of the initial specified value		
	Leakage current	\leq 200% of the initial specified value		

Dimensions



Standard lead style

ϕ D	8.0	10
P	3.5	5.0
ϕ d	0.6	

D'=[D +0.5] Max. L'=[L+1.0] Max. at D \leq 8.0
L'=[L+1.5]Max. at D \geq 10.0

Ripple current coefficient

Frequency

Freq(Hz)	120	1K	10K	100K
Factor	0.5	0.8	0.9	1.0

Temperature

Temperature	\leq 70°C	85°C	105°C
Factor	2.1	1.7	1.0

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Standard Ratings [Dimensions, ESR, Ripple Current]

 ϕ D x L(mm)

Cap(μ F)	W.V(V)	6.3(0J)			10(1A)			16(1C)		
		SIZE	ESR	I _r	SIZE	ESR	I _r	SIZE	ESR	I _r
470								8 x 11.5	0.036	1140
680		8 x 11.5	0.036	1140	8 x 11.5	0.036	1140	10 x 12.5	0.026	1490
820		8 x 11.5	0.036	1140						
1000		10 x 12.5	0.026	1540	10 x 12.5	0.026	1540	10 x 16	0.019	2000
								8 x 20	0.016	2350
1200		10 x 12.5	0.026	1540						
1500		8 x 20	0.019	1540	10 x 16	0.019	2000	10 x 20	0.013	2550
		10 x 12.5	0.026	1540	8 x 20	0.019	1870			
1800		10 x 16	0.019	2000	10 x 25	0.013	2550	10 x 25	0.012	2800
		8 x 20	0.019	1870						
2200		10 x 20	0.013	2550	10 x 25	0.012	2550			
3300		10 x 25	0.012	2800						

 I_r : Maximum permissible ripple current[mA(rms) at 105°C,100KHz]

 ESR : Max. ESR [Ω at 20°C,100KHz]