

Aluminum Electrolytic Capacitors

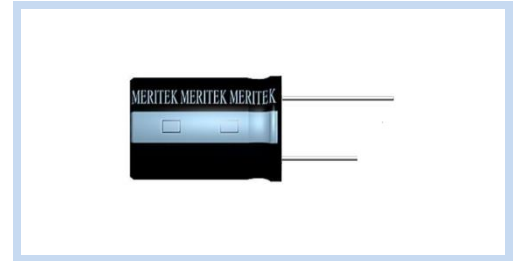
105°C 2000Hrs

RFZ Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +105°C
- Load Life of 2000 Hours
- Ultra Low Impedance Series
- Suitable for Switching Regulator of Computer, Especially For high Frequency



SPECIFICATIONS

Item	Characteristic					
Operation Temperature	-40°C ~ + 105°C					
Rated Working Voltage	6.3 ~ 25VDC					
Capacitance Tolerance	±20% (M) at 120Hz 20°C					
Leakage Current at 20°C	I ≤ 0.03CV or 3 (μA) *Whichever is greater after 2 minutes			I: Leakage Current (μA)	C: Capacitance (μF)	V: Working Voltage (V)
Dissipation Factor-tan δ At 120Hz 20°C	Rated Voltage (V)	6.3	10	16	25	
	tan δ max	0.22	0.19	0.16	0.16	
	When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.					
Low Temperature Stability	Rated Voltage (V)	6.3	10	16	25	
	-25°C / +20°C	4	3	2	2	
	-40°C / +20°C	8	6	4	4	
Impedance ratio at 120Hz						
Load Life	Capacitance Change	Within ±15% of initial value			After applying rated voltage with ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements.	
	Dissipation Factor	≤ 150% of initial specified value				
	Leakage current	≤ initial specified value				
Shelf Life	After placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirement as Endurance.					

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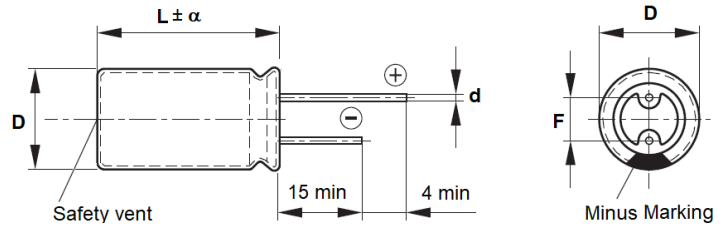
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DIMENSION

Unit: mm

D+0.5(max)	8	10	12.5
F±0.5	3.5	5.0	5.0
d±0.05	0.6	0.6	0.6
α	1.5	1.5	2.0



RIPPLE CURRENT COEFFICIENTS

Frequency Coefficient				
Frequency	120Hz	1KHz	10KHz	100KHz
Factor	0.5	0.8	0.9	1.0

CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		6.3VDC (0J)			10VDC (1A)		
		DxL	RC	Impedance	DxL	RC	Impedance
μF	Code	(mm)	mA(rms)	(mΩ)	(mm)	mA(rms)	(mΩ)
680	681	--	--	--	8x14	1230	40
820	821	8x11	1230	40	--	--	--
1000	102	8x16	1560	31	8x16	1660	31
		--	--	--	10x12.5	1700	29
1200	122	8x16	1710	31	--	--	--
1500	152	8x20	2040	22	8x20	2150	21
		10x12.5	1760	26	10x16	2200	21
1800	182	10x16	2140	20	10x20	2660	14
2200	222	10x20	2530	15	10x23	3000	13
3300	332	10x23	3110	13	--	--	--
3900	392	10x26	3480	13	--	--	--
4700	472	12.5x26	3810	14	--	--	--

Capacitance		16VDC (1C)			25VDC (1E)		
		DxL	RC	Impedance	DxL	RC	Impedance
μF	Code	(mm)	mA(rms)	(mΩ)	(mm)	mA(rms)	(mΩ)
470	471	8x11	1160	40	10x16	2030	29
680	681	8x16	1610	31	--	--	--
		10x12.5	1640	29	--	--	--
1000	102	8x20	2160	21	--	--	--
		10x16	2210	21	--	--	--
1500	152	10x20	2830	14	--	--	--
1800	182	10x23	3300	13	--	--	--

Note:
 1. Max ripple current :mA(rms) at 105°C. 100KHz
 2. Impedance(mΩ) at 20°C 100KHz

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PART NUMBERING SYSTEM

RFZ 1A 152 M H 200 A D
 (1) (2) (3) (4) (5) (6) (7) (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	RFZ	Aluminum Electrolytic Capacitors	Ultra Low Impedance, 2000Hrs 105°C
(2)	Rated Voltage Code	1A	1A: 10V	DC working voltage, See Table Below
(3)	Capacitance	152	152:1500µF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	-20% ~ +20%
(5)	Case Diameter Code	H	H: 8 mm	See Table Below
(6)	Case Height	200	200: 20.0 mm	Third digit denotes the first decimal place
(7)	Package	A	A: Tape & Ammo	R: Tape & Reel, Blank : Bulk
(8)	Taping Pitch Code	D	D: 3.5 mm	See Table Below, Blank: Bulk

Voltage	4	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500
Code	0G	0J	1A	1C	1E	1V	1H	1J	2A	2C	2D	2E	2V	2G	2W	2H

Diameter	4	5	6.3	8	10	12.5	14.5	16	18	20	22	25
Code	D	E	F	H	J	K	U	L	M	N	P	Q

Pitch	1.5	2	2.5	3.5	5	7.5
Code	A	B	C	D	E	F

LEGACY PART NUMBERING SYSTEM

RFZ 10V 152 M TA 0820
 (1) (2) (3) (4) (5) (6)

No	(1)	(2)	(3)	(4)	(5)	(6)
Item	Meritek Series	Rated Voltage	Capacitance	Tolerance	Package	Case Size

*Specifications subject to change without notice.