

Aluminum Electrolytic Capacitors

105°C 2000~3000Hrs

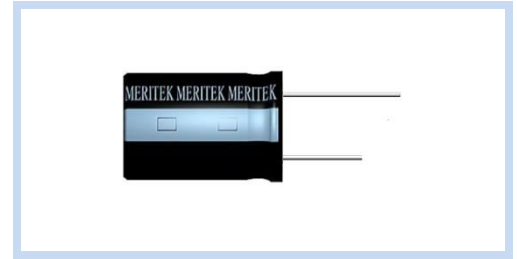
RF Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +105°C
- High Ripple Current, Low E.S.R. and Long Life
- Suitable for Electronic Ballast, Adaptor and Switching Power
- Load Life

Dia	≤8mm	≥10mm
Life	2000hrs	3000hrs



SPECIFICATIONS

Item	Characteristic					
Operation Temperature	-40°C ~ + 105°C			-25°C ~ + 105°C		
Rated Working Voltage	160 ~ 400VDC			450VDC		
Capacitance Tolerance	±20% (M); 120Hz 20°C					
Leakage Current at 20°C	I ≤ 0.06CV + 10 (μA) *Whichever is greater after 2 minutes			I:	Leakage Current (μA)	
				C:	Capacitance (μF)	
				V:	Working Voltage (V)	
Surge Voltage at 20°C	Rated Voltage (V)	160	200	250	400	450
	Surge Voltage (V)	200	250	300	450	500
Dissipation Factor-tan δ At 120Hz 20°C	Rated Voltage (V)	160	200	250	400	450
	tan δ max	0.15	0.15	0.15	0.24	0.24
Low Temperature Stability	Rated Voltage (V)	160 ~ 250			400	450
	-25°C / +20°C	3			6	6
	-40°C / +20°C	4			6	--
	Impedance ratio at 120Hz					
Load Life	Capacitance Change	≤ ±20% of initial value			After working hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)	
	Dissipation Factor	≤ 200% of initial specified value				
	Leakage current	≤ initial specified value				
	Dia	≤ 8mm	≥10mm			
	Life	2000hrs	3000hrs			
Shelf Life	At + 105°C no voltage application after 1000 hours. the capacitors shall meet the limits for load life characteristics. (With voltage treatment)					

Aluminum Electrolytic Capacitors

105°C 2000~3000Hrs

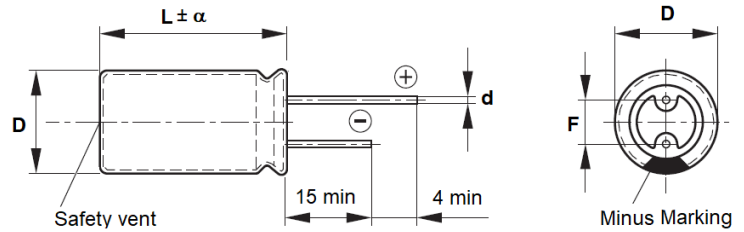
RF Series

MERITEK

DIMENSION

Unit: mm

D+0.5(max)	10	12.5	16	18
F±0.5	5.0	5.0	7.5	7.5
d±0.05	0.6	0.6	0.8	0.8
α	1.5	2.0	2.0	2.0



RIPPLE CURRENT COEFFICIENTS

Working Voltage	Frequency Coefficient			
	120Hz	1KHz	10KHz	100KHz
160~450V	0.50	0.80	0.90	1.00

Temperature Coefficient	
°C	Factor
65°C	1.80
75°C	1.65
85°C	1.50
95°C	1.25
105°C	1.00

CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		160VDC (2C)			200VDC (2D)			250VDC (2E)		
		DxL	IMP	RC	DxL	IMP	RC	DxL	IMP	RC
μF	Code	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)
4.7	4R7	--	--	--	--	--	--	10x16	3.45	150
10	100	10x16	1.47	220	10x16	1.47	220	10x20	2.70	240
22	220	10x20	0.80	350	10x20	0.80	350	12.5x20	1.47	380
33	330	10x20	0.62	430	12.5x20	0.62	460	12.5x25	1.15	510
47	470	12.5x20	0.50	550	12.5x25	0.50	610	16x25	0.92	610
68	680	12.5x20	0.39	660	12.5x25	0.39	730	16x32	0.71	810
100	101	16x25	0.32	890	16x32	0.32	980	18x36	0.59	1110
220	221	16x36	0.17	1540	18x36	0.17	1640	18x40	0.31	1730

Capacitance		400VDC (2G)			450VDC (2W)		
		DxL	IMP	RC	DxL	IMP	RC
μF	Code	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)
2.2	2R2	--	--	--	10x16	4.94	110
3.3	3R3	10x20	2.60	170	10x20	4.11	150
4.7	4R7	10x25	2.20	220	12.5x20	3.47	190
10	100	12.5x25	1.72	340	12.5x25	2.72	300
22	220	16x25	0.94	510	16x32	1.48	500
33	330	16x32	0.73	690	16x32	1.15	620
47	470	16x32	0.59	820	18x32	0.92	780
68	680	16x32	0.46	990	--	--	--
100	101	18x32	0.38	1280	--	--	--
120	121	18x36	0.32	1480	--	--	--
150	151	18x40	0.26	1740	--	--	--
180	181	18x40	0.23	1910	--	--	--

Note:

1. Max ripple current :mA(rms) at 105°C. 100KHz
2. Max impedance(Ω) at 20°C 100KHz

Aluminum Electrolytic Capacitors

105°C 2000~3000Hrs

RF Series

MERITEK

PART NUMBERING SYSTEM

RF 2D 101 M L 320 A F
 (1) (2) (3) (4) (5) (6) (7) (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	RF	Aluminum Electrolytic Capacitors	High Ripple Current, Low ESR, 3000Hrs 105°C
(2)	Rated Voltage Code	2D	200V:200V	DC working voltage, See Table Below
(3)	Capacitance	101	101:100µF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	-20% ~ +20%
(5)	Case Diameter Code	L	L: 16 mm	See Table Below
(6)	Case Height	320	320: 32.0 mm	Third digit denotes the first decimal place
(7)	Package	A	A: Tape & Ammo	R: Tape & Reel, Blank : Bulk
(8)	Taping Pitch Code	F	F: 7.5 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

RF 200V 101 M TA 1632
 (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.