Aluminum Electrolytic Capacitors

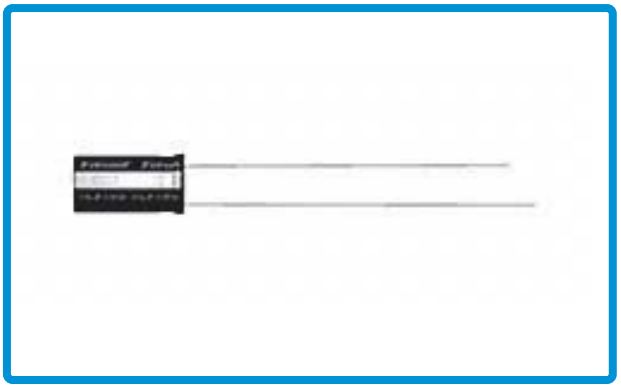
RF Series
(High Ripple,Low ESR)

RoHS

MERITEK

FEATURES

- Low ESR, low impedance
- Large permissible ripple current
- For AC adaptors and ballasts



SPECIFICATIONS

Item	Characteristic
Operating Temp Range	-25°C to +105°C
Rated Working Voltage	160 to 450VDC
Capacitance Tolerance	±20% (M)
Leakage Current (25°C)	I ≤ 0.03CV+40μA (max) after 3 minutes I= Leakage current (μA) C=Nominal Capacitance(μF) V=Rated voltage
Surge voltage (25°C)	WV 160 200 250 350 400 450 SV 200 250 300 400 450 500
Dissipation Factor Tan δ (120Hz, 25°C)	Add 0.02 per 100μF for more than 100μF WV 160 200 250 350 400 450 tan δ 0.10 0.10 0.10 0.12 0.12 0.15
Low Temperature Stability	Impedance ratio at 120Hz Rated voltage 160-250 350 400 450 -25°C to +25°C 3 4 6 15
Load Life	After 2000 hours (1000 hours for ØD ≤ 8mm) application of WV at 105°C the capacitor shall meet the following limits. Capacitance change ≤ ±20% of initial value Dissipation Factor ≤ 200% of initial specified value Leakage current ≤ initial specified value
Shelf Life	At 105°C no voltage applied after 500 hours the capacitor shall meet the following limits. Capacitance change ≤ 20% of initial value Dissipation Factor ≤ 200% of initial specified value Leakage current ≤ 200% of initial specified value

PART NUMBERING SYSTEM

RF 16V 222 M TA 13 x 21

Meritek Series

Voltage

Capacitance
Expressed in microfarads (μF). First two digits are significant figures. Third digit denotes number of zeros. 'R' Denotes decimal point for values less than 10μF.

Tolerance – M = ±20%

Package

CODE	TA	TR	BLANK
	Tape & Ammo	Tape & Reel	Bulk

Case size – (D) Diameter X **(L)** Length in mm (Optional)

A suffix may be added to denote tape and reel/tape and ammo lead spacing or customer specific features

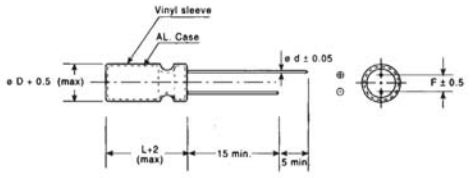
CASE SIZE

D	6.3	8	10	13	16	18
F	2.5	3.5	5.0		7.5	
d	0.5		0.6		0.8	

RIPPLE CURRENT COEFFICIENTS

Temperature	70	85	105
Multiplier	1.80	1.50	1.00

Frequency (Hz)	60	120	1K	10K
WV	Multiplier			
160~450	0.70	1.00	1.40	1.60



CASE SIZE & MAX RIPPLE CURRENT

Case size: D x L (mm)
Max ripple current: mA (rms)
(R.C.): 85°C, 120Hz

μF	WV	160		200		250		350		400		450	
	ITEM	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
1								10x13	17	10x13	17	10x13	15
2.2		6.3x11	22	6.3x11	22	8x11	25	10x16	27	10x16	27	10x21	27
3.3		8x11	31	8x11	31	10x13	33	10x16	33	10x21	37	13x21	34
4.7		8x11	37	10x13	40	10x13	40	10x21	45	10x21	45	13x21	40
10		10x13	60	10x16	65	10x21	70	13x21	65	13x26	70	16x25	65
22		10x21	110	10x21	110	13x26	120	16x25	110	16x25	110	16x32	110
33		13x21	130	13x26	140	13x26	140	16x32	150	16x32	150	18x35	140
47		13x26	170	13x26	170	16x25	180	18x35	180	18x35	180		
100		16x25	260	16x32	290	18x35	290						
220		18x35	440	18x42	470								