

Aluminum Electrolytic Capacitors

3~5KHrs 125°C Low Impedance

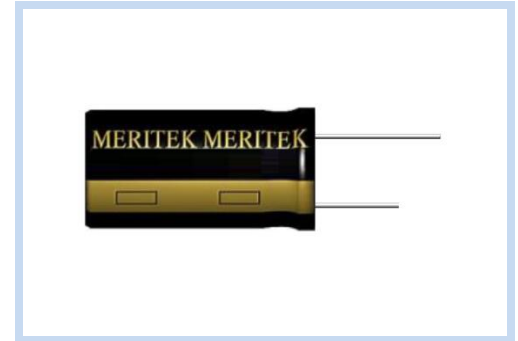
WTF Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +125°C
- Applicable for Electronic Ballast, Lighting Ballast
- Load Life of 3000~5000 Hours at +125°C

L, Hieght	≤20mm	≥25mm
Life	3000hrs	5000hrs



SPECIFICATIONS

Item	Characteristic						
Operation Temperature	-40°C ~ + 125°C						
Rated Working Voltage	25 ~ 63VDC						
Capacitance Tolerance	±20% (M) at 120Hz 20°C						
Leakage Current at 20°C	I = 0.03CV or 4 (μA) *Whichever is greater after 1 minutes					I: Leakage Current (μA) C: Capacitance (μF) V: Working Voltage (V)	
Surge Voltage at 20°C	Rated Voltage (V)	25	35	50	63	--	--
	Surge Voltage (V)	32	44	63	79	--	--
Dissipation Factor- tan δ	Rated Voltage (V)	25	35	50	63	--	--
	tan δ max	0.14	0.12	0.14	0.14	--	--
Add 0.02 per 1000 μF for more than 1000 μF; at 120Hz 20°C							
Low Temperature Stability	Rated Voltage (V)	25	35	50	63	--	--
	-25°C / +20°C	2	2	2	2	--	--
	-40°C / +20°C	4	4	4	4	--	--
Impedance ratio at 120Hz							
Load Life	Capacitance Change	≤ ±30% of initial value		After working hours application of W.V. and +125°C, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)			
	Dissipation Factor	≤ 300% of initial value					
	Leakage current	≤ initial specified value					
		L, Hieght	≤20mm	≥25mm			
		Life	3000hrs	5000hrs			
Shelf Life	At + 125°C no voltage application after 1000 hours. the capacitors shall meet the limits for load life characteristics. (With voltage treatment)						

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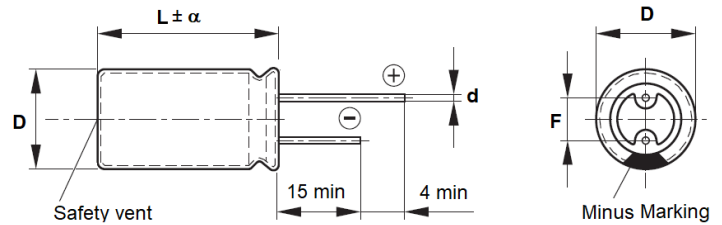
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DIMENSION

Unit: mm

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



RIPPLE CURRENT COEFFICIENTS

Working Voltage	Capacitance	Frequency Coefficient				Temperature Coefficient	
		120Hz	1KHz	10KHz	100KHz	°C	Factor
25~63WV	47~560μF	0.50	0.85	0.94	1.00	≤ 70°C	1.9
	620~1800μF	0.60	0.87	0.95	1.00	85°C	1.75
	2200~3900μF	0.75	0.90	0.95	1.00	105°C	1.40
	4700~6800μF	0.85	0.95	0.98	1.00	125°C	1.00

CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		25VDC (1E)			35VDC (1V)			50VDC (1H)		
		DxL	IMP	RC	DxL	IMP	RC	DxL	IMP	RC
μF	Code	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)	(mm)	(Ω)	mA(rms)
470	471	--	--	--	--	--	--	12.5x20	0.095	1500
680	681	--	--	--	12.5x20	0.046	1820	12.5x25	0.078	1900
		--	--	--	--	--	--	16x20	0.073	2040
820	821	--	--	--	--	--	--	12.5x30	0.071	2150
1000	102	--	--	--	12.5x25	0.040	2280	12.5x35	0.064	2510
		--	--	--	--	--	--	16x25	0.061	2620
		--	--	--	--	--	--	18x20	0.069	2240
1200	122	12.5x20	0.046	1820	12.5x30	0.031	2560	12.5x40	0.058	2870
		--	--	--	16x20	0.036	2280	16x30	0.057	2940
		--	--	--	--	--	--	18x25	0.059	2750
1500	152	--	--	--	12.5x35	0.027	2970	16x36	0.053	3300
		--	--	--	18x20	0.036	2490	--	--	--
1800	182	12.5x25	0.040	2280	12.5x40	0.023	3340	18x30	0.056	3140
		16x20	0.036	2280	16x25	0.028	2860	--	--	--

Note:
 1. Max ripple current :mA(rms) at 125°C. 100KHz
 2. Max impedance(Ω) at 20°C 100KHz

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CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		25VDC (1E)			35VDC (1V)			50VDC (1H)		
μ F	Code	DxL (mm)	IMP (Ω)	RC mA(rms)	DxL (mm)	IMP (Ω)	RC mA(rms)	DxL (mm)	IMP (Ω)	RC mA(rms)
2200	222	13x30	0.031	2560	16x30	0.025	3160	16x40	0.050	3720
		--	--	--	18x25	0.026	3010	18x36	0.052	3510
2700	272	12.5x35	0.027	2970	16x36	0.022	3590	18x40	0.048	3940
		16x25	0.028	2860	18x30	0.022	3390	--	--	--
		18x20	0.036	2490	--	--	--	--	--	--
3300	332	12.5x40	0.023	3340	16x40	0.018	3970	--	--	--
		16x30	0.025	3160	18x36	0.020	3840	--	--	--
3900	392	16x36	0.022	3590	--	--	--	--	--	--
		18x25	0.026	3010	--	--	--	--	--	--
4700	472	18x30	0.022	3390	18x40	0.017	4230	--	--	--
5600	562	16x40	0.018	3970	--	--	--	--	--	--
		18x36	0.020	3840	--	--	--	--	--	--
6800	682	18x40	0.017	4230	--	--	--	--	--	--

Capacitance		63VDC (1J)		
μ F	Code	DxL (mm)	IMP (Ω)	RC mA(rms)
470	471	16x20	0.105	1790
680	681	16x25	0.085	2030
		18x20	0.095	1910
820	821	16x30	0.073	2330
1000	102	16x36	0.064	2580
		18x25	0.069	2280
1200	122	16x40	0.056	2900
		18x30	0.061	2580
1500	152	18x36	0.055	2890
1800	182	18x40	0.050	3210

Note:

1. Max ripple current :mA(rms) at 125°C. 100KHz
2. Max impedance(Ω) at 20°C 100KHz

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PART NUMBERING SYSTEM

WTF 1H 821 M K 300 A E
 (1) (2) (3) (4) (5) (6) (7) (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	WTF	Aluminum Electrolytic Capacitors	Low Impedance, Long Life, 5000Hrs 125°C
(2)	Rated Voltage Code	1H	50V:50V	DC working voltage, See Table Below
(3)	Capacitance	821	821:820µF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	-20% ~ +20%
(5)	Case Diameter Code	K	K: 12.5 mm	See Table Below
(6)	Case Height	300	300: 30 mm	Third digit denotes the first decimal place
(7)	Package	A	A: Tape & Ammo	R: Tape & Reel, Blank : Bulk
(8)	Taping Pitch Code	E	E: 5.0 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

*Specifications subject to change without notice.