

Aluminum Electrolytic Capacitors

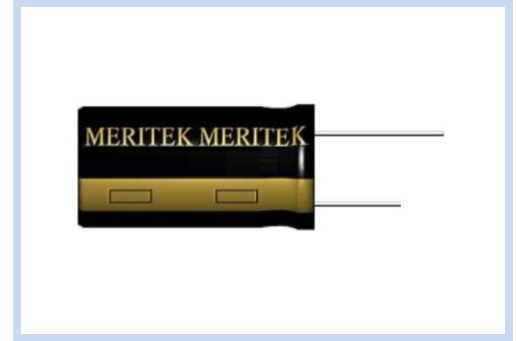
2000Hrs 125°C Long Life

WTE Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +125°C
- Load Life of 2000 Hours at +125°C
- Applicable for Electronic Ballast, Lighting Ballast



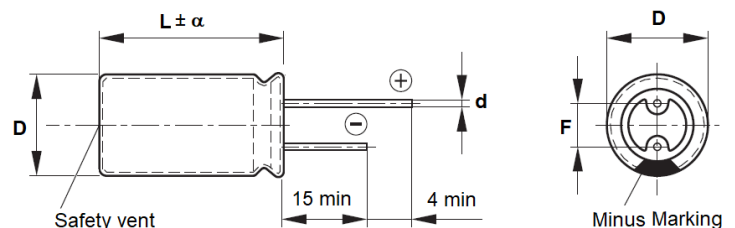
SPECIFICATIONS

Item	Characteristic							
Operation Temperature	-25°C ~ + 125°C							
Rated Working Voltage	160 ~ 450VDC							
Capacitance Tolerance	±20% (M) at 120Hz 20°C							
Leakage Current at 20°C	$I = 0.1CV + 40\mu A (CV \leq 1000)$ $I = 0.04CV + 100\mu A (CV > 1000)$ *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	350	400	450	
	Surge Voltage (V)	200	250	300	400	450	500	
Dissipation Factor-tan δ At 120Hz 20°C	Rated Voltage (V)	160	200	250	350	400	450	
	tan δ max	0.20	0.20	0.20	0.24	0.24	0.24	
Add 0.02 per 1000 μF for more than 1000 μF								
Low Temperature Stability Impedance ratio at 120Hz	Rated Voltage (V)	160	200	250	350	400	450	
	-25°C / +20°C	3	3	3	6	6	6	
	-40°C / +20°C	-	-	-	-	-	-	
Load Life	Capacitance Change	Within ±20% of initial value					After 2000 hours application of W.V. and +125°C, the capacitor shall meet the following limits.	
	Dissipation Factor	≤ 200% of initial specified value						
	Leakage current	≤ initial specified value						
Shelf Life	Capacitance Change	Within ±20% of initial value					At + 125°C no voltage application after 1000 hours the capacitor shall meet the following limits. (with voltage treatment)	
	Dissipation Factor	≤ 200% of initial specified value						
	Leakage current	≤ 500% of initial specified value						

DIMENSION

Unit: mm

D±0.5(max)	8	10	12.5	16	18
F±0.5	3.5	5.0	5.0	7.5	7.5
d±0.05	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	2.0	2.0	2.0



Aluminum Electrolytic Capacitors

2000Hrs 125°C Long Life

WTE Series

MERITEK

RIPPLE CURRENT COEFFICIENTS

Working Voltage	Capacitance	Frequency Coefficient			
		120Hz	1KHz	10KHz	50~100KHz
10~63WV	CAP ≤ 10	0.40	0.75	0.90	1.00
	10 < CAP ≤ 100	0.50	0.85	0.95	1.00
	100 < CAP ≤ 1000	0.60	0.85	0.96	1.00
	1000 < CAP	0.75	0.90	0.98	1.00
10~63WV	CAP ≤ 33	1.00	1.50	1.75	1.80
	CAP ≤ 47	1.00	1.30	1.40	1.50

Temperature	Coefficient
°C	Factor
≤ 70°C	1.90
85°C	1.75
105°C	1.40
125°C	1.00

CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		160VDC (2C)		200VDC (2D)		250VDC (2E)	
		DxL	RC	DxL	RC	DxL	RC
µF	Code	(mm)	mA(rms)	(mm)	mA(rms)	(mm)	mA(rms)
2.2	2R2	--	--	--	--	8x11	28
3.3	3R3	8x11	28	8x11	28	10x12.5	32
4.7	4R7	10x12.5	40	10x12.5	40	10x16	45
10	100	10x16	60	10x20	78	10x20	78
22	220	10x20	115	10x25	126	12.5x20	128
33	330	10x25	154	12.5x20	157	12.5x25	171
47	470	12.5x20	187	12.5x25	204	16x25	225
68	680	12.5x25	245	16x20	250	16x32	292
100	101	16x25	329	16x25	329	--	--
150	151	16x32	434	--	--	--	--
Capacitance		350VDC (2V)		400VDC (2G)		450VDC (2W)	
		DxL	RC	DxL	RC	DxL	RC
µF	Code	(mm)	mA(rms)	(mm)	mA(rms)	(mm)	mA(rms)
1.0	010	8x11	25	10x12.5	28	8x16	25
2.2	2R2	10x12.5	32	10x16	35	10x16	32
3.3	3R3	10x16	45	10x16	42	10x20	40
4.7	4R7	10x20	53	10x20	53	10x25	58
10	100	10x25	85	10x25	86	12.5x20	86
22	220	12.5x25	139	12.5x30	142	16x25	154
33	330	16x25	189	16x25	189	16x32	203
47	470	16x32	243	16x32	243	--	--

Note:
Max ripple current :mA(rms) at 125°C. 120Hz

Aluminum Electrolytic Capacitors 2000Hrs 125°C Long Life

WTE Series

MERITEK

PART NUMBERING SYSTEM

$\frac{WTE}{(1)}$ $\frac{2C}{(2)}$ $\frac{220}{(3)}$ $\frac{M}{(4)}$ $\frac{J}{(5)}$ $\frac{200}{(6)}$ $\frac{A}{(7)}$ $\frac{E}{(8)}$

No	Item	Code	Description	Series Reference
(1)	Meritek Series	WTE	Aluminum Electrolytic Capacitors	Long Life, up to 2000Hrs at 125°C
(2)	Rated Voltage Code	1H	50V:50V	DC working voltage, See Table Below
(3)	Capacitance	221	221:220μF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	-20% ~ +20%
(5)	Case Diameter Code	J	J: 10 mm	See Table Below
(6)	Case Height	200	200: 20 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.