

Aluminum Electrolytic Capacitors 1K~3KHrs 135°C High Temperature

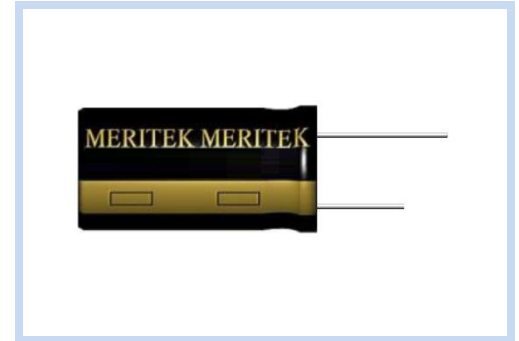
WAU Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +135°C
- Applicable for Electronic Ballast, Lighting Ballast
- Load Life of up to 3000 Hours at +135°C

Dia	8mm	10mm	≥12.5mm
Life	1000hrs	2000hrs	3000hrs



SPECIFICATIONS

Item	Characteristic							
Operation Temperature	-40°C ~ + 135°C							
Rated Working Voltage	10 ~ 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)	10	16	25	35	50	63	
	Surge Voltage (V)	13	20	32	44	63	79	
Dissipation Factor- tan δ	Rated Voltage (V)	10	16	25	35	50	63	
	tan δ max	0.20	0.16	0.14	0.12	0.10	0.09	
Add 0.02 per 1000 μF for more than 1000 μF; at 120Hz 20°C								
Low Temperature Stability	Rated Voltage (V)	10	16	25	35	50	63	
	-25°C / +20°C	3	2	2	2	2	2	
	-40°C / +20°C	6	4	4	4	4	4	
Impedance ratio at 120Hz								
Load Life	Capacitance Change	≤ ±30% of initial value					After working hours application of W.V. at +135°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						
		Dia	8mm	10mm	≥12.5mm			
		Life	1000hrs	2000hrs	3000hrs			
Shelf Life	Capacitance Change	≤ ±30% of initial value					At + 130°C no voltage application after 1000 hours. the capacitors shall meet the limits for load life characteristics. (With voltage treatment)	
	Dissipation Factor	≤ 300% of initial value						
	Leakage current	≤ initial specified value						

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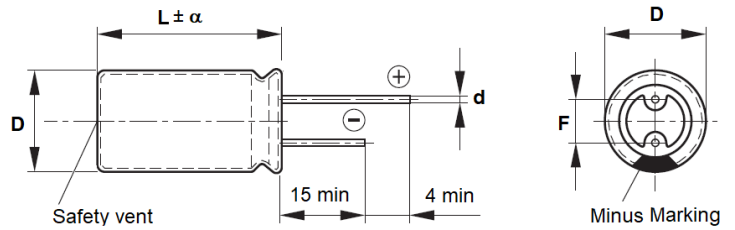
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DIMENSION

Unit: mm

D+0.5(max)	5	6.3	8	10	12.5	16	18
F±0.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d±0.05	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	2.0	2.0	2.0



RIPPLE CURRENT COEFFICIENTS

Working Voltage	Capacitance	Frequency Coefficient			
		120Hz	1KHz	10KHz	≥ 100KHz
10~63WV	<100μF	0.40	0.75	0.90	1.00
	100~470μF	0.50	0.85	0.94	1.00
	>470μF	0.60	0.87	0.95	1.00

CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		10VDC (1A)		16VDC (1C)		25VDC (1E)		35VDC (1V)	
		DxL	RC	DxL	RC	DxL	RC	DxL	RC
μF	Code	(mm)	mA(rms)	(mm)	mA(rms)	(mm)	mA(rms)	(mm)	mA(rms)
100	101	--	--	8x11	340	8x11	500	10x12	620
220	221	8x11	340	10x12	595	10x12	680	10x16	790
330	331	10x12	490	10x15	680	10x16	945	10x20	950
470	471	10x15	640	10x16	945	10x20	1100	12.5x20	1330
1000	102	10x20	1060	12.5x20	1490	12.5x25	1750	16x25	2010
2200	222	12.5x25	1750	16x25	2300	16x32	2710	--	--
3300	332	16x25	2300	16x32	2710	--	--	--	--
4700	472	16x32	2710	--	--	--	--	--	--

Note: Max ripple current :mA(rms) at 135°C. 100KHz

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CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		50VDC (1H)		63VDC (1J)	
		DxL	RC	DxL	RC
μF	Code	(mm)	mA(rms)	(mm)	mA(rms)
22	220	--	--	8x11	130
33	330	8x11	300	8x11	150
47	470	8x11	440	10x12	230
100	101	10x12	550	10x16	370
220	221	10x20	930	12.5x20	685
330	331	12.5x20	1330	12.5x25	925
470	471	12.5x25	1650	12.5x35	1280
1000	102	16x32	2340	16x32	2060

Note: Max ripple current :mA(rms) at 130°C. 100KHz

PART NUMBERING SYSTEM

W A U 1 H 2 2 0 M E 1 1 0 A B
(1) (2) (3) (4) (5) (6) (7) (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	WAU	Aluminum Electrolytic Capacitors	High Temperature 135°C, up to 3000Hrs
(2)	Rated Voltage Code	1H	50V:50V	DC working voltage, See Table Below
(3)	Capacitance	220	220:22μF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	-20% ~ +20%
(5)	Case Diameter Code	E	E: 5 mm	See Table Below
(6)	Case Height	110	110: 11 mm	Third digit denotes the first decimal place
(7)	Package	A	A: Tape & Ammo	R: Tape & Reel, Blank : Bulk
(8)	Taping Pitch Code	B	B: 2.0 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.