

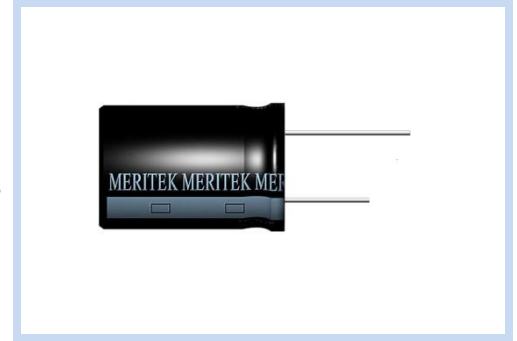
Aluminum Electrolytic Capacitors 2000Hrs 85°C Bi-Polar

BP Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +85°C
- Load Life of 2000 Hours at +85°C
- Have High Frequency and High Ripple Current Characteristics
- Suitable for Equalizing of Horizontal Deflection of TV Sets and Terminals



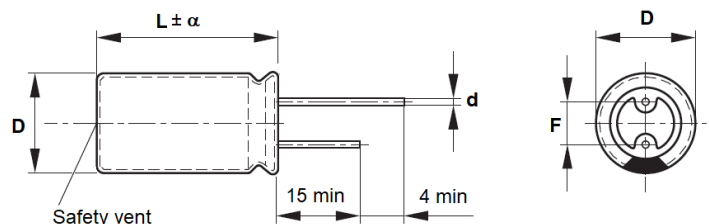
SPECIFICATIONS

Item	Characteristic			
Operation Temperature Range	-40°C ~ + 85°C			
Rated Working Voltage	25 ~ 50VDC			
Capacitance Tolerance	±20% (M) ±10%(K) at 120Hz 20°C			
Leakage Current at 20°C	100 (µA) After 5 minutes in both directions.		I: Leakage Current (µA) C: Capacitance (µF) V: Working Voltage (V)	
Surge Voltage at 20°C	Rated Voltage (V)	25	35	50
	Surge Voltage (V)	32	44	63
Dissipation Factor-tan δ	tanδ ≤0.05 at 120Hz 20°C			
Temperature Stability	Capacitance change shall be within ±10% of the value at 20°C over operation temperature range.			
Load Life	After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage) (The polarity need to exchange every 250 hours)			
	Capacitance Change	≤ ±15% of initial value		
	Dissipation Factor	≤ 200% of initial specified value		
	Leakage current	≤ initial specified value		

DIMENSION

Unit: mm

D+0.5(max)	10	12.5	16	18	22
F±0.5	5.0	5.0	7.5	7.5	10.0
d±0.05	0.6	0.6	0.8	0.8	1.0
α	1.5	1.5	1.5	1.5	2.0



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CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		25VDC (1E)			35VDC (1V)			50VDC (1H)		
		DxL	E.S.R.	RC	DxL	E.S.R.	RC	DxL	E.S.R.	RC
μF	Code	(mm)	(Ω)	A(P-P)	(mm)	(Ω)	A(P-P)	(mm)	(Ω)	A(P-P)
2.2	2R2	10x20	30.14	2.80	12.5x25	30.14	3.50	12.5x25	30.14	3.50
3.3	3R3	12.5x25	20.10	4.50	16x25	20.10	4.80	16x25	20.10	4.80
4.7	4R7	12.5x25	14.11	5.50	16x31.5	14.11	6.50	16x31.5	14.11	6.50
6.8	6R8	16x31.5	9.75	7.50	16x35.5	9.75	8.00	16x35.5	9.75	8.00
8.2	8R2	16x31.5	8.09	8.50	18x35.5	8.09	9.50	18x35.5	8.09	9.50
10	100	16x35.5	6.63	10.00	18x35.5	6.63	10.50	18x35.5	6.63	10.50
12	120	18x35.5	5.53	11.50	22x40	5.53	12.00	22x40	5.53	12.00
18	180	22x40	3.68	13.00						

Note:

1. Max ripple current: A (P-P) at 85°C. 15.75KHz
2. E.S.R.(Ω) at 20°C 120Hz

PART NUMBERING SYSTEM

BP 1H 100 M M 355 A E
(1) (2) (3) (4) (5) (6) (7) (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	BP	Aluminum Electrolytic Capacitors	Bi-Polarized, 2000Hrs 85°C
(2)	Rated Voltage	1H	1H:50V	DC working voltage
(3)	Capacitance	100	100:10μF	First two digit: significant, Third: Multiplier
(4)	Tolerance	M	M: ± 20%	K: ± 10%
(5)	Case Diameter Code	M	M: 18 mm	See Table Below
(6)	Case Height	355	355: 35.5 mm	Case Height and/or Project Reference
(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

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LEGACY PART NUMBERING SYSTEM

BP 50V 100 M TA 1835
(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.