

Aluminum Electrolytic Capacitors

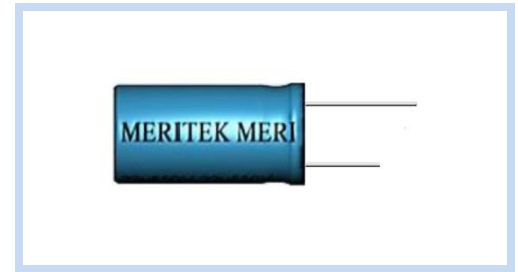
1000Hrs 85°C Non-Polar 7mm

NPM Series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +85°C
- Load Life of 1000 Hours at +85°C
- Non Polarity Series with 7mm Height



SPECIFICATIONS

Item	Characteristic						
Operation Temperature	-40°C ~ + 85°C						
Rated Working Voltage	6.3 ~ 50VDC						
Capacitance Tolerance	±20% (M) at 120Hz 20°C						
Leakage Current at 20°C	I ≤ 0.05CV or 10 (μA) *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)	6.3	10	16	25	35	50
	Surge Voltage (V)	8	13	20	32	44	63
Dissipation Factor-tan δ At 120Hz 20°C	Rated Voltage (V)	6.3	10	16	25	35	50
	tan δ max	0.24	0.20	0.17	0.15	0.12	0.12
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	6.3	10	16	25	35	50
	-25°C / +20°C	4	3	2	2	2	2
	-40°C / +20°C	10	8	6	4	3	3
Load Life	After 1000 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	≤ ±20% of initial value					
	Dissipation Factor	≤ 150% of initial specified value					
	Leakage current	≤ initial specified value					
Shelf Life	At +85°C no voltage application after 500 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)						
	Capacitance Change	≤ ±20% of initial value					
	Dissipation Factor	≤ 200% of initial specified value					
	Leakage current	≤ 200 of initial specified value					

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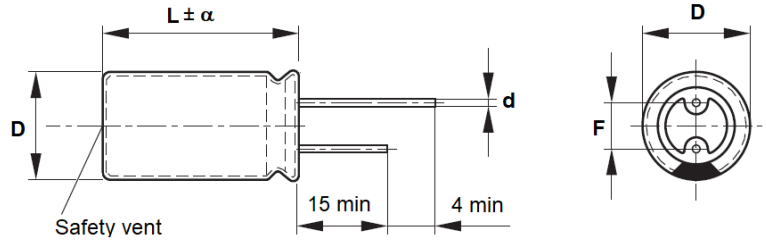
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DIMENSION

Unit: mm

D+0.5(max)	4	5	6.3	8
F±0.5	1.5	2.0	2.5	3.5
d±0.05	0.45	0.45	0.45	0.5
α	1.0	1.0	1.0	1.0



CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		6.3VDC (0J)		10VDC (1A)		16VDC (1C)		25VDC (1E)		35VDC (1V)		50VDC (1H)	
		DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC
μF	Code	mm	mA	mm	mA	mm	mA	mm	mA	mm	mA	mm	mA
1.0	1R0										→	4x7	9
2.2	2R2								→	4x7	14	5x7	16
3.3	3R3						→	4x7	15	5x7	19	5x7	19
4.7	4R7				→	4x7	17	5x7	20	5x7	23	6.3x7	26
10	100		→	4x7	23	5x7	28	6.3x7	34	6.3x7	38	8x7	44
22	220	5x7	35	5x7	38	6.3x7	47	6.3x7	50	8x7	65	8x7	65
33	330	5x7	43	6.3x7	55	6.3x7	60	8x7	70	8x7	80		
47	470	6.3x7	60	6.3x7	65	6.3x7	70	8x7	85				
100	101	8x7	100	8x7	110	8x7	120						

Note:

1. Max ripple current: mA (rms) at 85°C. 120Hz
2. All blank voltage on sleeve marking is the same voltage as "→" point to.

PART NUMBERING SYSTEM

NPM (1) 1H (2) 220 (3) M (4) H (5) 070 (6) A (7) E (8)

No	Item	Code	Description	Series Reference
(1)	Meritek Series	NPM	Aluminum Electrolytic Capacitors	Non-Polar 7mm Height, 1000Hrs 85°C
(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	H	H: 8 mm	See Table Below
(6)	Case Height	070	070: 7 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

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NPM Series

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LEGACY PART NUMBERING SYSTEM

NPM 50V 220 M TA 87
(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.