

# Aluminum Electrolytic Capacitors

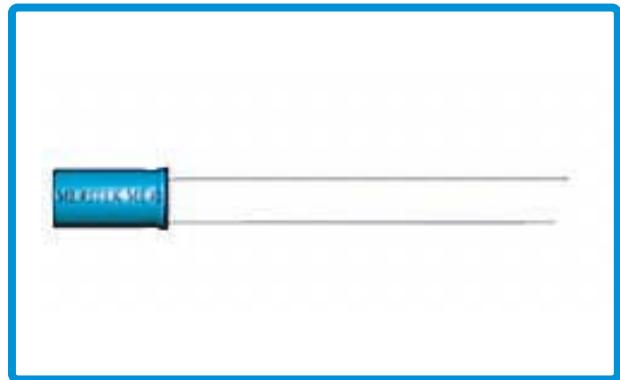
NP Series  
(Non-Polar)



MERITEK

## FEATURES

- For crossover networks
- Low dissipation factor



## SPECIFICATIONS

Item	Characteristic								
Operating Temp Range	-40°C to +85°C								
Rated Working Voltage	6.3 to 100VDC								
Capacitance Tolerance	$\pm 20\%$ (M)								
Leakage Current (25°C)	$I \leq 0.02CV$ or $4\mu A$ Whichever is greater after 3 minutes I=Leakage current ( $\mu A$ ) C=Nominal Capacitance ( $\mu F$ ) V=Rated voltage								
Surge voltage (25°C)	WV	6.3	10	16	25	35	50	63	100
	SV	8	13	20	32	44	63	79	125
Dissipation Factor $Tan\delta$ (120Hz, 25°C)	WV	6.3	10	16	25	35	50	63	100
	$tan\delta$	0.24	0.20	0.17	0.16	0.12	0.10	0.10	0.10
Low Temperature Stability	Impedance ratio at 120Hz Rated voltage								
		6.3	10	16	25	35	50	63	100
	-25°C to +25°C	4	3	2	2	2	2	2	2
	-40°C to +25°C	10	8	6	4	4	4	4	2
Load Life	After 1000 hours application of WV at 85°C, reversing polarity every 250 hours, the capacitor shall meet the following limits.								
	Capacitance change	$\leq \pm 20\%$ of initial value							
	Dissipation Factor	$\leq 150\%$ of initial specified value							
	Leakage current	$\leq$ initial specified value							

## PART NUMBERING SYSTEM

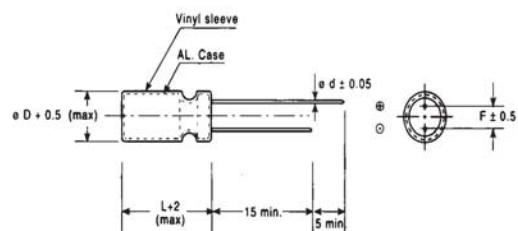
Meritek Series	NP	16V	222	M	TA	13 x 21
Voltage						
<b>Capacitance</b>						
Expressed in microfarads ( $\mu F$ ). First two digits are significant figures. Third digit denotes number of zeros. 'R' Denotes decimal point for values less than $10\mu F$ .						
<b>Tolerance - M</b> = $\pm 20\%$						
<b>Package</b>						
CODE	TA	TR	BLANK			
Tape & Ammo	Tape & Reel	Bulk				

**Case size - (D)** Diameter X **(L)** Length in mm (Optional)

A suffix may be added to denote tape and reel/tape and ammo lead spacing or customer specific features

## CASE SIZE

D	5	6.3	8	10	13	16
F	2.0	2.5	3.5	5.0		7.5
d		0.5		0.6		0.8



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## CASE SIZE & MAX RIPPLE CURRENT

Case size  
Max ripple current  
(R.C.)

D x L (mm)  
mA (rms)  
85°C, 120Hz

μF	WV	6.3		10		16	
		ITEM	D x L	R.C.	D x L	R.C.	D x L
10						5x11	47
22				5x11	65	6.3x11	80
33	5x11	70	6.3x11	90	8x11	110	
47	6.3x11	100	6.3x11	110	Bx11	130	
100	8x11	160	8x11	180	10x12	230	
220	10x12	260	10x12	310	10x16	380	
330	10x16	350	10x16	430	13x21	480	
470	10x21	470	13x21	530	13x25	630	
1000	13x21	770	16x26	960	16x26	1040	
2200	13x26	1250	16x32	1410			

μF	WV	25		35		50	
		ITEM	D x L	R.C.	D x L	R.C.	D x L
0.1 to 0.47						5x11	13
1						5x11	19
2.2						5x11	29
3.3						5x11	40
4.7	5x11	34	5x11	38	6.3x11	48	
10	6.3x11	55	6.3x11	65	6.3x11	80	
22	8x11	95	8x11	110	10x12	130	
33	8x11	120	10x12	140	10x12	170	
47	10x12	150	10x16	190	10x16	230	
100	10x16	280	10x21	310	13x21	380	
220	13x21	410	13x21	510	16x26	640	
330	13x25	570	16x26	640	16x32	810	
470	16x26	760	16x32	850			

μF	WV	63		100	
		ITEM	D x L	R.C.	D x L
0.1 to 0.47				5x11	13
1				5x11	19
2.2	5x11	29	6.3x11	33	
3.3	6.3x11	40	8x11	46	
4.7	6.3x11	48	8x11	55	
10	8x11	80	10x12	95	
22	10x16	140	10x21	160	
33	10x21	190	13x21	220	
47	13x21	240	13x26	260	
100	16x26	390	16x26	430	
220	16x32	640			