

# Surface Mount Aluminum Electrolytic Capacitors



SNP Series  
(Non Polarity, 85°C)

MERITEK

## FEATURES

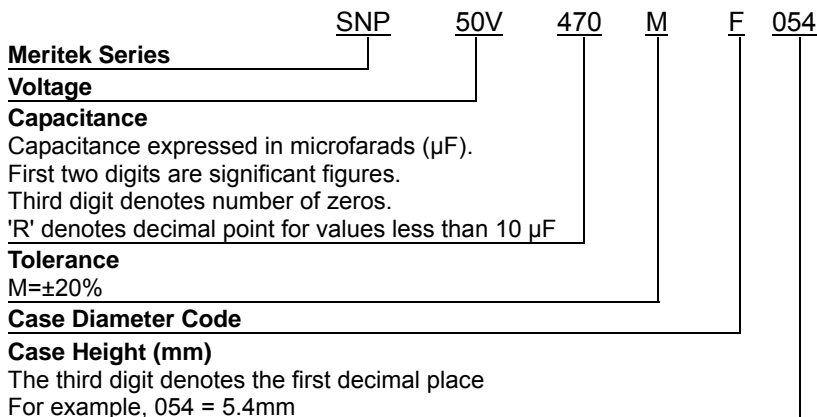
- Height : 5.4mm
- Load life : 85°C 2000 hours
- Non polarity series using in polarity circuits



## SPECIFICATIONS

Item	Characteristic						
Operation Temperature Range	-40 ~ +85°C						
Rated Working Voltage	6.3 ~ 50VDC						
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Leakage Current (20°C)	$I \leq 0.05CV$ or $10 (\mu A)$ *Whichever is greater after 2 minutes I: Leakage Current ( $\mu A$ )      C: Rated Capacitance ( $\mu F$ )      V: Working Voltage (V)						
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50
	S.V.	8	13	20	32	44	63
Dissipation Factor (tan $\delta$ ) (120Hz 20°C)	W.V.	6.3	10	16	25	35	50
	tan $\delta$	0.26	0.22	0.20	0.20	0.20	0.18
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	8	6	4	4	3	3
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 $\leq$ rate working voltage) (The polarity need to exchange every 250 hours)						
	Capacitance Change	$\leq \pm 25\%$ of initial value					
	Dissipation Factor	$\leq 200\%$ of initial specified value					
	Leakage current	$\leq$ initial specified value					
Shelf Life	At +85°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)						
Resistance to Soldering Heat	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.						
	Capacitance Change	$\leq \pm 10\%$ of initial value					
	Dissipation Factor	$\leq$ initial specified value					
	Leakage current	$\leq$ initial specified value					

## PART NUMBERING SYSTEM



Case Diameter Code	$\Phi D$
D	$\Phi 4.0$
E	$\Phi 5.0$
F	$\Phi 6.3$

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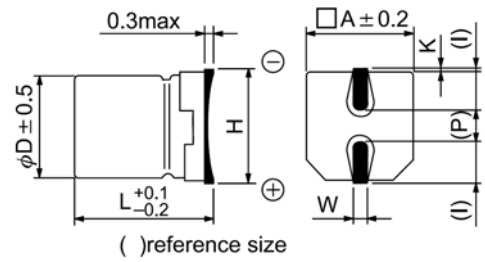


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## DIMENSIONS (mm)

Φ D	L	A	H	I	W	P	K
Φ 4.0	5.4	4.3	5.5MAX	1.8	0.65±0.1	1.0	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
Φ 5.0	5.4	5.3	6.5MAX	2.2	0.65±0.1	1.5	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
Φ 6.3	5.4	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 <sup>+0.15</sup> <sub>-0.20</sub>



## CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)  
Max ripple current : mA(ms) 85°C 120Hz

Cap. (uF)	V	6.3		10		16		25		35		50	
		Item	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL
0.1	0R1											4x5.4	2
0.22	R22											4x5.4	3
0.33	R33											4x5.4	4
0.47	R47											4x5.4	5
1.0	010											4x5.4	7
2.2	2R2									4x5.4	10	5x5.4	12
3.3	3R3							5x5.4	13	5x5.4	14	5x5.4	14
4.7	4R7					4x5.4	14	5x5.4	16	5x5.4	17	6.3x5.4	19
10	100			4x5.4	19	5x5.4	23	6.3x5.4	27	6.3x5.4	28		
22	220	5x5.4	29	6.3x5.4	36	6.3x5.4	39						
33	330	6.3x5.4	41	6.3x5.4	45	6.3x5.4	48						
47	470	6.3x5.4	49										