

Aluminum Electrolytic Capacitors Surface Mount Non-Polar AEC-Q200

SNP-A Series

MERITEK

FEATURE

- Non-Polar Series
- AEC-Q200 Compliant
- Low Profile Construction Design, 5.5mm Height
- Load life at 85°C



Diameter (mm)	Load Life (Hours)
4.0 ~ 6.3	2000



SPECIFICATIONS

Item	Characteristic					
Operating Temperature	-40 ~ 85°C					
Rated Working Voltage	6.3 ~ 50VDC					
Nominal Capacitance	1 ~ 47μF, ±20% (at 20°C, 120HZ)					
Leakage Current	$I_L \leq 0.05CV$ or 10μA whichever is greater after 2 minutes at 20°C					
Ripple Current Coefficient, Frequency	Frequency (Hz)	60	120	1K	10K	--
	Coefficient	0.85	1.00	1.10	1.20	--
Dissipation Factor at 20°C, 120Hz	Working Voltage (V)	6.3	10	25	35	50
	Dissipation Factor	0.26	0.22	0.20	0.20	0.18
Low Temperature Stability, Impedance Ratio at 120Hz	Working Voltage (V)	6.3	10	25	35	50
	Z-25°C / Z+20°C	4	3	2	2	2
	Z-40°C / Z+20°C	8	6	4	3	3
Load Life	Capacitance	$\leq \pm 25\%$ of initial value				Apply Working Voltage for Rated Load Life / Temperature Stabilized at +20°C.
	Dissipation Factor	$\leq 200\%$ of initial value				
	Leakage Current	\leq Initial specified value				
Shelf Life	Capacitance	$\leq \pm 25\%$ of initial value				After storage condition without voltage applied for 1000 hours at Rated Temperature, Stabilizing for 1 to 2 hours.
	Dissipation Factor	$\leq 200\%$ of initial value				
	Leakage Current	\leq Initial specified value				
Resistance to Soldering Heat	Capacitance	$\leq \pm 20\%$ of initial value				For other procedures than those specified, Soldering iron method: Temperature: 260±5°C. Application time of soldering iron: 10 sec
	Dissipation Factor	\leq specified value				
	Leakage Current	\leq specified value				

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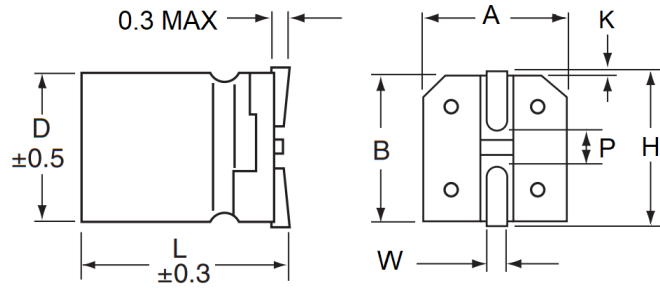
SPECIFICATIONS

Rated Voltage	Rated Capacitance		Case Size	Tan δ	Ripple Current
	(V _{DC})	(μ F) Code			
6.3	22	220	5x5.4	0.26	29
	33	330	6.3x5.4	0.26	41
	47	470	6.3x5.4	0.26	49
10	10	100	4x5.4	0.22	19
	22	220	6.3x5.4	0.22	36
	33	330	6.3x5.4	0.22	45
16	4.7	4R7	4x5.4	0.20	14
	10	100	5x5.4	0.20	23
	22	220	6.3x5.4	0.20	39
	33	330	6.3x5.4	0.20	48

Rated Voltage	Rated Capacitance		Case Size	Tan δ	Ripple Current
	(V _{DC})	(μ F) Code			
25	3.3	3R3	5x5.4	0.20	13
	4.7	4R7	5x5.4	0.20	16
	10	100	6.3x5.4	0.20	27
35	2.2	2R2	4x5.4	0.20	10
	3.3	3R3	5x5.4	0.20	14
	4.7	4R7	5x5.4	0.20	17
	10	100	6.3x5.4	0.20	28
50	1.0	1R0	4x5.4	0.18	7
	2.2	2R2	5x5.4	0.18	12
	3.3	3R3	5x5.4	0.18	14
	4.7	4R7	6.3x5.4	0.18	19

Note: Ripple Current measured at 120Hz, 85°C

DIMENSION



Unit: mm

D	L	A ± 0.2	B Max	H Max	W ± 0.1	P ± 0.2	K
4.0 (D)	5.4	4.3	5.0	5.5	0.65	1.0	0.35+0.15/-0.2
5.0 (E)	5.4	5.3	6.0	6.5	0.65	1.5	0.35+0.15/-0.2
6.3 (F)	5.4	6.6	7.3	7.8	0.65	2.1	0.35+0.15/-0.2

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PART NUMBERING SYSTEM

SNP **1H** **4R7** **A** **F054**
(1) (2) (3) (4) (5)

No	Item	Code	Description	
(1)	Product Code	SNP	Aluminum Electrolytic Capacitors, SMD type, Non-Polar, 2000 Hrs 85°C	
(2)	Rated Voltage	1H	50VDC	DC Voltage Code
(3)	Capacitance	4R7	4.7µF ±20% (M)	First two digits: significant, Third: Multiplier
(4)	Series Code	A	AEC-Q200 Compliant Series	
(5)	Size Code	F054	6.3x5.4mm	DxL (mm)

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

*Specifications subject to change without notice.