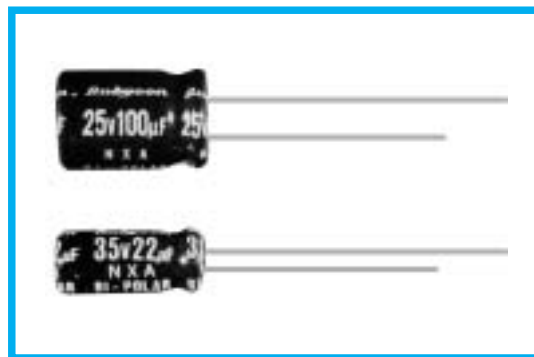


NXA SERIES

105°C Bi-polar Miniaturized

◆FEATURES

- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-55~+105℃																											
Rated Voltage Range	6.3~50V.DC																											
Capacitance Tolerance	±20% (20℃, 120Hz)																											
Leakage Current(MAX)	I=0.03CV or 3 μ A whichever is greater. (After 5 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																											
Dissipation Factor(MAX) (tan δ)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tan δ</td><td>0.25</td><td>0.25</td><td>0.20</td><td>0.20</td><td>0.15</td><td>0.15</td></tr></table> (20℃, 120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	tan δ	0.25	0.25	0.20	0.20	0.15	0.15							
Rated Voltage (V)	6.3	10	16	25	35	50																						
tan δ	0.25	0.25	0.20	0.20	0.15	0.15																						
Endurance	After applying rated voltage with rated ripple current for 1000hrs at 105℃, (The polarity shall be reversed every 250hrs.) the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="6">Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="6">Not more than the specified value.</td></tr></table>							Capacitance Change	Within ±25% of the initial value.						Dissipation Factor	Not more than 200% of the specified value.						Leakage Current	Not more than the specified value.					
Capacitance Change	Within ±25% of the initial value.																											
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Leakage Current	Not more than the specified value.																											
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z (-25℃)/Z (20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z (-40℃)/Z (20℃)</td><td>8</td><td>6</td><td>4</td><td>4</td><td>4</td><td>4</td></tr></table> (120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	Z (-25℃)/Z (20℃)	4	3	2	2	2	2	Z (-40℃)/Z (20℃)	8	6	4	4	4	4
Rated Voltage (V)	6.3	10	16	25	35	50																						
Z (-25℃)/Z (20℃)	4	3	2	2	2	2																						
Z (-40℃)/Z (20℃)	8	6	4	4	4	4																						

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

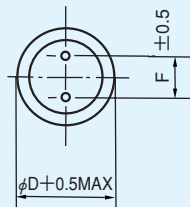
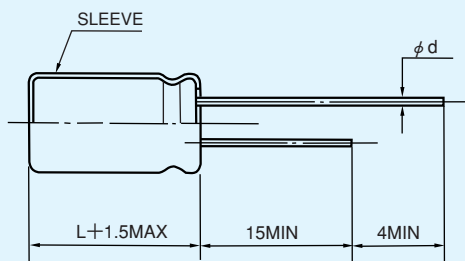
Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.47~1 μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7 μF	0.65	1.00	1.20	1.30	1.50
	10~47 μF	0.80	1.00	1.20	1.30	1.50
	100~1000 μF	0.80	1.00	1.10	1.15	1.20

◆PART NUMBER

 NXA **D×L**
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆ DIMENSIONS

(mm)



ϕD	5	6.3	8	10	12.5
ϕd	0.5		0.6		
F	2.0	2.5	3.5	5.0	

◆ STANDARD SIZE, RATED RIPPLE CURRENT

 Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 120Hz)

WV (V.DC) Cap (μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
33							5×11	49
47					5×11	54	6.3×11	68
100	5×11	63	6.3×11	68	6.3×11	84	8×11.5	111
220	6.3×11	68	8×11.5	135	8×11.5	137	10×12.5	182
330	8×11.5	135	8×11.5	147	10×12.5	202	10×16	247
470	8×11.5	161	10×12.5	212	10×16	262	10×20	333
1000	10×16	297	10×20	378	12.5×20	472		

WV (V.DC) Cap (μF)	35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple
0.47			5×11	7
1			5×11	12
2.2			5×11	14
3.3			5×11	19
4.7			5×11	23
10			5×11	30
22	5×11	44	6.3×11	44
33	6.3×11	56	6.3×11	56
47	6.3×11	68	8×11.5	78
100	10×12.5	142	10×16	149
220	10×20	256	12.5×20	277
330	12.5×20	343	12.5×25	364
470	12.5×25	402		