

NXA SERIES

105°C Bi-polar Miniaturized

RoHS
compliance



◆SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-55~+105℃																											
Rated Voltage Range	6.3~50Vdc																											
Capacitance Tolerance	±20% (20℃,120Hz)																											
Leakage Current(MAX)	I=0.03CV or 3μA whichever is greater. (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																											
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tanδ</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 (Vdc)	6.3	10	16	25	35	50	tanδ	0.25	0.25	0.20	0.20	0.15	0.15							
Rated Voltage (Vdc)	6.3	10	16	25	35	50																						
tanδ	0.25	0.25	0.20	0.20	0.15	0.15																						
Endurance	After applying rated voltage with rated ripple current for 1000 hours 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.					
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</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 (Vdc)	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 (Vdc)	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≤
1μF	0.50	1.00	1.20	1.30	1.50
2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
10~47μF	0.80	1.00	1.20	1.30	1.50
100~1000μF	0.80	1.00	1.10	1.15	1.20

◆OPTION

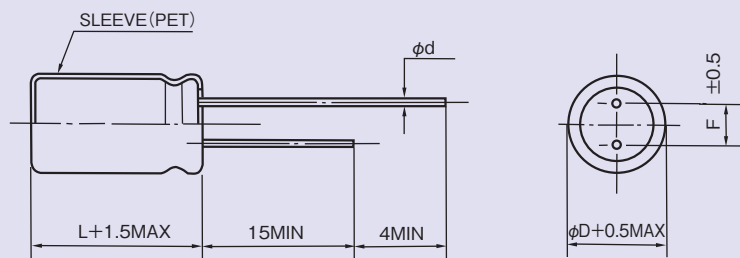
	Code
PET Sleeve	EFC

◆PART NUMBER

□□□ NXA □□□□□ M □□□ □□ DxL
 Rated Voltage Series 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**

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

Vdc Cap(μF)	6.3		10		16		25	
	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		

Vdc Cap(μF)	35		50	
	Size	Ripple	Size	Ripple
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		