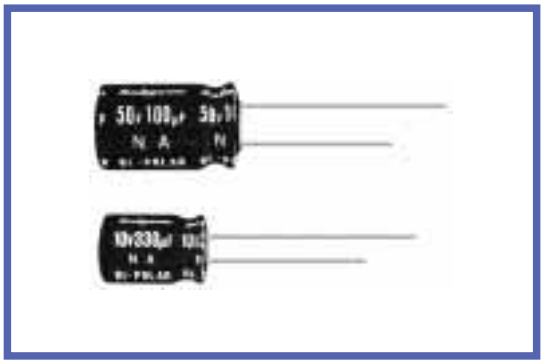
NA SERIES

85˚C Bi-polar Miniaturized



♦SPECIFICATIONS

Items	Characteristics
Operating Temperature Range	-40~+85˚C
Rated Voltage Range	6.3~100V.DC
Capacitance Tolerance	±20%(20˚C, 120Hz)
Leakage Current(MAX)	I=0.03CV or 3μA whichever is greater.(After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Nominal Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX)	(20˚C, 120Hz)
Load Life	After applying rated voltage with max ripple current for 2000hrs at 85˚C, (The polarity shall be reversed every 250hrs.),the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
tanδ	0.25	0.25	0.20	0.20	0.15	0.15	0.15	0.15

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.

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
Z(-25˚C)/Z(20˚C)	6	4	4	3	2	2	2	2
Z(-40˚C)/Z(20˚C)	12	10	8	6	4	4	4	3

♦MULTIPLIER FOR RIPPLE CURRENT

(1)Frequency coefficient

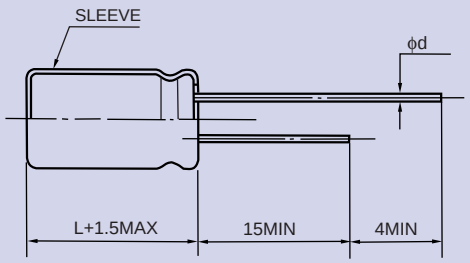
Frequency(Hz)		60(50)	120	500	1k	10k≦
Coefficient	0.47~47μF	0.8	1.0	1.20	1.30	1.50
	100~1000μF	0.8	1.0	1.10	1.15	1.20

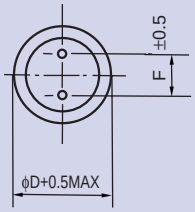
(2)Temperature coefficient

Ambient Temperature (˚C)	85	70	50≧
Coefficient	1.0	1.6	2.0

♦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, MAX. PERMISSIBLE RIPPLE CURRENT

Size ϕDxL(mm), Ripple Current (mA r.m.s./85°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							5x11	77
47					5x11	80	6.3x11	100
100	5x11	100	6.3x11	115	6.3x11	130	8x11.5	175
220	6.3x11	160	8x11.5	205	8x11.5	220	10x12.5	295
330	8x11.5	225	8x11.5	240	10x12.5	325	10x16	380
470	8x11.5	250	10x12.5	345	10x16	415	10x20	510
1000	10x16	425	10x20	550	12.5x20	695		

WV(V.DC) / Cap(μF)	35 (1V)		50 (1H)		63 (1J)		100 (2A)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47			5x11	8			5x11	10
1			5x11	12			5x11	15
2.2			5x11	19			5x11	20
3.3			5x11	25			5x11	27
4.7			5x11	35	5x11	35	6.3x11	37
10			5x11	40	6.3x11	45	8x11.5	65
22	5x11	65	6.3x11	72	8x11.5	82	10x12.5	96
33	6.3x11	90	6.3x11	95	8x11.5	100	10x16	125
47	6.3x11	110	8x11.5	130	10x12.5	140	10x20	165
100	10x12.5	220	10x16	235	10x20	250	12.5x25	285
220	10x20	390	12.5x20	460	12.5x25	490		
330	12.5x20	540	12.5x25	590				
470	12.5x25	640						