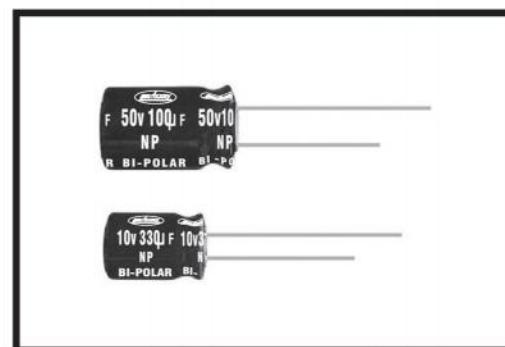


## NP SERIES

85°C Bi-polar Miniaturized



## ◆ SPECIFICATIONS

Items	Characteristics									
Category 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=Rated Capacitance(μF) V=Rated Voltage(V)									
Dissipation Factor(MAX)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(20°C, 120Hz)
	tanδ	0.25	0.25	0.20	0.20	0.15	0.15	0.15	0.15	
Endurance	After applying rated voltage with rated ripple current for 2000hrs at 85°C, (The polarity shall be reversed every 250hrs.), the capacitors shall meet the following requirements.									
	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.								
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(120Hz)
	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

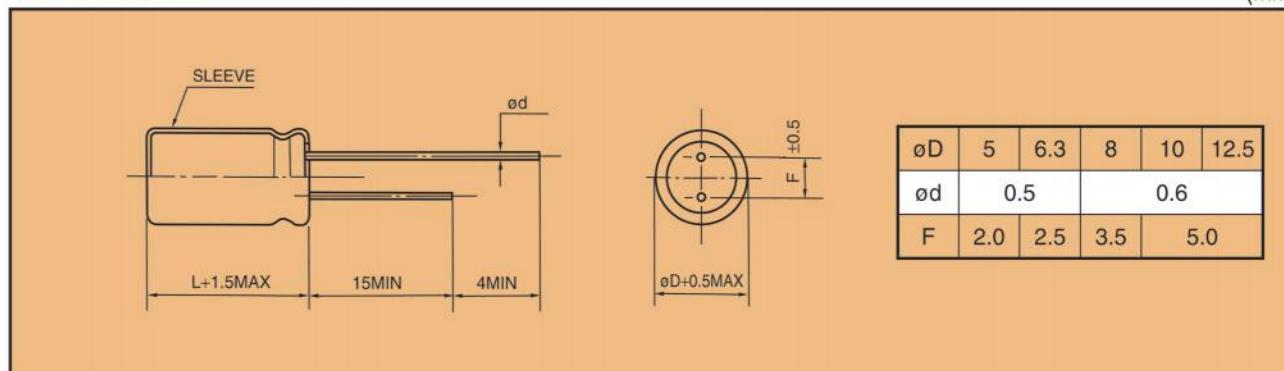
Frequency coefficient

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

## ◆ PART NUMBER

□□□	NP	□□□□□	□	□□□	□□	DxL
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

## ◆ DIMENSIONS (mm)



## ◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size øD×L(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							5×11	77
47							5×11	80
100	5×11	100	6.3×11	115	6.3×11	130	8×11.5	175
220	6.3×11	160	8×11.5	205	8×11.5	220	10×12.5	295
330	8×11.5	225	8×11.5	240	10×12.5	325	10×16	380
470	8×11.5	250	10×12.5	345	10×16	415	10×20	510
1000	10×16	425	10×20	550	12.5×20	695		

WV(V.DC) Cap(μF)	35 (1V)		50 (1H)		63 (1J)		100 (2A)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47			5×11	8			5×11	10
1			5×11	12			5×11	15
2.2			5×11	19			5×11	20
3.3			5×11	25			5×11	27
4.7			5×11	35	5×11	35	6.3×11	37
10			5×11	40	6.3×11	45	8×11.5	65
22	5×11	65	6.3×11	72	8×11.5	82	10×12.5	96
33	6.3×11	90	6.3×11	95	8×11.5	100	10×16	125
47	6.3×11	110	8×11.5	130	10×12.5	140	10×20	165
100	10×12.5	220	10×16	235	10×20	250	12.5×25	285
220	10×20	390	12.5×20	460	12.5×25	490		
330	12.5×20	540	12.5×25	590				
470	12.5×25	640						