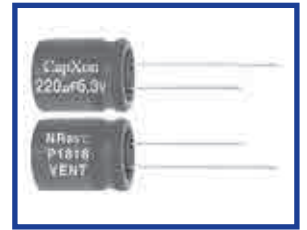


NR Series 85°C



Features

- ◆ Standard non polarity series for using in polarity reversal circuits.
- ◆ Design For audio equipment.
- ◆ RoHS Compliant

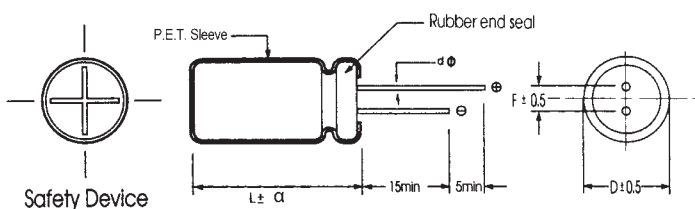
Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40~+85°C								
Rated Voltage Range	6.3~100 VDC								
Capacitance Range	0.15 to 1000 µF								
Capacitance Tolerance	±20%(120Hz,+20°C)								
Leakage Current (+20°C,max.)	I ≤ 0.03 CV or 3 (µA) (After 1 minute with rated working voltage applied.)								
Dissipation Factor (tan δ , at 20°C , 120Hz)	Working Voltage(VDC)	6.3	10	16	25	35	50	63	100
	D.F.(%)max.	24	20	16	16	14	12	10	10
Low Temperature Characteristics (at 120Hz)	Impedance ratio max (at: 120Hz)								
	Working voltage(VDC)	6.3	10	16	25	35	50	63	100
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	4	3	3	3	3
Endurance	Test condition								
	Duration time	: 2000 Hrs							
	Ambient temperature	:+85°C							
	Applied voltage	: Rated DC working voltage							
	Each 250 hours,we will reserve the terminal and test the characteristics								
	After test requirement at +20°C								
	Capacitance change	: within ≤ ±20% of the initial measured value							
	Dissipation factor	: ≤200% of the initial specified value							
	Leakage current	: ≤The initial specified value							
Shelf Life	Test condition								
	Duration time	:1000 Hrs							
	Ambient temperature	:+85°C							
	Applied voltage	:None							
	After test requirement at +20°C:Same limits as Endurance.								
	Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.								

Multiplier for Ripple Current vs. Frequency

CAP(µF)\Frequency(Hz)	50(60)	120	400	1K	10K	50K~100K
CAP ≤ 10	0.8	1	1.30	1.45	1.65	1.70
10 < CAP ≤ 100	0.8	1	1.23	1.36	1.48	1.53
100 < CAP ≤ 1000	0.8	1	1.16	1.25	1.35	1.38
1000 < CAP	0.8	1	1.11	1.17	1.25	1.28

Diagram of Dimension:(unit:mm)



	φ D	5	6.3	8	10	13	16
	F	2.0	2.5	3.5	5.0	5.0	7.5
	φ d	0.5			0.6		0.8
α	D < 16	D=16		D=18			D > 18
		L:25~35.5	L < 25 and L ≥ 40	L:25~31.5	L < 25 and L ≥ 35.5		
		1.5	1.5	2.0	1.5	2.0	2.0

Case Size

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mAmps/85°C /120Hz)
6.3	33	5x11	62
6.3	47	6.3x11	76
6.3	100	8x11.5	154
6.3	220	10x12.5	245
6.3	330	10x16	330
6.3	470	10x20	360
6.3	1000	13x25	910
10	22	5x11	60
10	33	6.3x11	70
10	47	6.3x11	95
10	100	10x12.5	188
10	220	10x16	294
10	330	10x20	360
10	470	13x20	538
10	1000	16x25	940
16	10	5x11	43
16	22	6.3x11	71
16	33	6.3x11	90
16	47	8x11.5	122
16	100	10x12.5	208
16	220	10x20	360
16	330	13x20	480
16	470	13x25	638
16	1000	16x31.5	1090
25	4.7	5x11	26
25	10	5x11	44
25	22	6.3x11	71
25	33	8x11.5	110
25	47	10x12.5	150
25	100	10x16	250
25	220	13x25	478
25	330	13x25	615
25	470	16x25	720
35	4.7	5x11	34
35	10	6.3x11	48
35	22	8x11.5	96
35	33	10x12.5	135
35	47	10x12.5	154

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mAmps/85°C /120Hz)
35	100	10x20	275
35	220	13x25	560
35	330	16x25	670
50	0.47	5x11	12
50	1	5x11	18
50	1.8	5x11	22
50	2.2	5x11	27
50	3.3	5x11	29
50	4.7	6.3x11	42
50	10	8x11.5	65
50	22	10x12.5	118
50	33	10x16	155
50	47	10x20	200
50	100	13x25	370
50	220	16x25	645
50	330	16x31.5	760
63	0.47	6.3x11	14
63	1	6.3x11	22
63	1.8	6.3x11	26
63	2.2	6.3x11	33
63	3.3	8x11.5	36
63	4.7	8x11.5	44
63	10	8x11.5	73
63	22	10x12.5	125
63	33	10x16	170
63	47	10x20	215
63	100	13x25	384
100	0.15	6.3x11	13
100	0.47	6.3x11	17
100	1	6.3x11	25
100	1.8	6.3x11	32
100	2.2	6.3x11	39
100	3.3	8x11.5	49
100	4.7	10x12.5	60
100	10	10x16	98
100	22	10x20	165
100	33	13x20	275