SYC SEMICONDUCTORES Y COMPONENTES

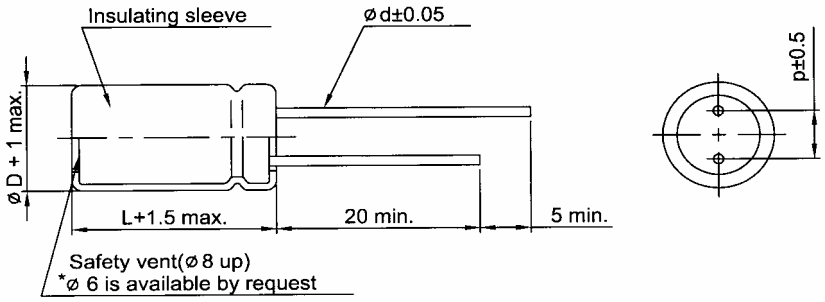
RNPXXXMXX

- **These are non-polar capacitors designed for circuits with reversing polarity.**
- **Tolerance of ± 10% (K) if required can also be available on request.**
- **Life time 105℃ 1000 Hours**

Characteristics

Voltage Range	10~100V							
Capacitance Range	0.47~1000uF							
Temperature Range	-40 ~ + 105℃							
Capacitance Tolerance	+20% -20% (at 20℃, 120Hz)							
Leakage Current	I=0.03C or 3uA max. (After 3 minutes)							
Dissipation Factor(tan δ) (at 20℃, 120Hz)	Rated voltage	10V	16V	25V	35V	50V	63V	100V
	tan δ	0.25	0.20	0.18	0.15	0.13	0.10	0.10
Stability at Low Temperature	Impedance ration at 120Hz							
	Rated Voltage (V)	10V	16V	25V	35V	50V	63V	100V
	Z-25℃/Z 20℃	3	2	2	2	2	2	2
	Z-40℃/Z 20℃	6	4	3	3	3	3	3
Load Life	After rated voltage has been applied on each polarity for 500 hours at 105℃ (Total 1000 hours)	Capacitance change	Within ±15% of initial value					
		D.F. (tan δ)	150% or less of initial specified value					
		Leakage current	Less than initial specified value					

Diagram of dimensions



D ϕ	5	6.3	8	10	13	16
F	2.0	2.5	3.5	5.0	5.0	7.5
d ϕ	0.5		0.5			0.8

Case Size of Standard Products & Maximum Ripple Current (mA rms 105℃ 120Hz)

WV / Cap. uF	10V		16V		25V		35V		50V		63V		100V	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
0.47									5x11	8	5x11	9	5x11	10
1									5x11	12	5x11	14	5x11	15
2.2									5x11	17	5x11	20	6.3x11	22
3.3									5x11	23	5x11	25	6.3x11	22
4.7									5x11	30	5x11	30	8x12	36
10					5x11	34	5x11	38	6.3x11	50	6.3x11	52	8x12	52
22			5x11	53	6.3x11	55	6.3x11	65	8x12	85	8x12	88	10x16	120
33			5x11	62	6.3x11	72	8x12	75	8x12	89	10x13	115	10x21	175
47	5x11	79	6.3x11	90	6.3x11	96	8x12	107	8x12	123	10x16	150	13x21	187
100	6.3x11	99	6.3x11	123	8x12	152	10x13	198	10x16	220	13x21	295	16x26	399
220	8x12	157	10x13	234	10x13	245	10x21	320	13x21	340	13x26	420	16x32	520
330	10x13	235	10x13	255	10x16	310	13x21	370	16x26	500				
470	10x13	290	10x16	360	13x21	420	13x26	495	16x32	590				
1000	10x21	430	13x21	511										