

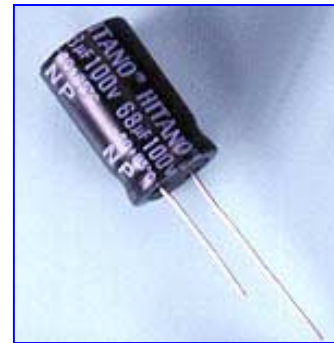
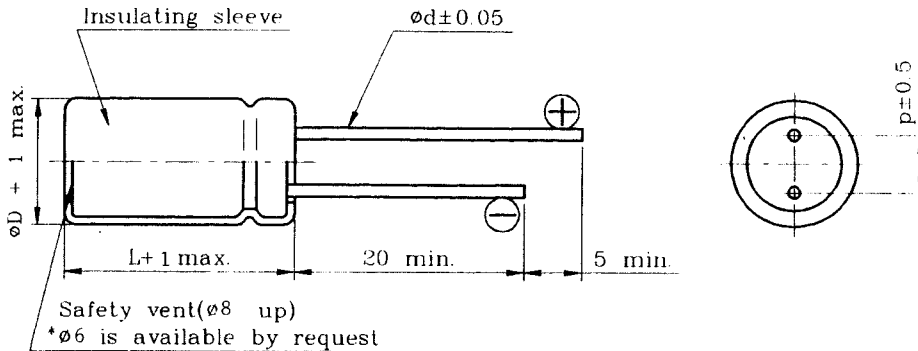
ENR SERIES

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

Characteristics

Voltage Range	10~160V									
Capacitance Range	0.47~1000uF									
Temperature Range	-40 ~ + 105°C									
Capacitance Tolerance	+20% -20% (at 20°C, 120Hz)									
Leakage Current	I=0.03C or 4uA max. (After 5 minutes)									
Dissipation Factor(tan δ)	Rated voltage	10V	16V	25V	35V	50V	63V	100V	160V	
	tan δ	0.25	0.20	0.20	0.16	0.15	0.12	0.10	0.15	(at 20°C, 120Hz)
Stability at Low Temperature	Impedance ration at 120Hz									
	Rated Voltage (V)	10V	16V	25V	35V	50V	63V	100V	160V	
	Z-25°C/Z 20°C	3	2	2	2	2	2	2	2	2
Z-40°C/Z 20°C	6	4	4	3	3	3	3	3	-	
Load Life	After rated voltage has been applied on each polarity for 500 hours at 105°C (Total 1000 hours)		Capacitance change				Within $\pm 15\%$ of initial value			
			D.F. (tan δ)				150% of less of initial specified value			
			Leakage current				Initial specified value of less			

Diagram of dimensions



D ϕ	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d ϕ	0.5		0.5			0.8	

Maximum Ripple Current mA rms 105°C, 120Hz

Case Size of Standard Products D \times L(mm)

uF \ WV	10v	16v	25v	35v	50v	63v	100v	160V
0.47					7	7	8	12
1					10	10	12	19
2.2					15	15	20	30
3.3					18	20	25	39
4.7					22	24	30	45
10			30	30	37	40	50	80
22		40	46	51	63	68	97	150
33		49	56	72	77	98	140	230
47	54	67	67	86	105	130	170	265
100	90	110	110	160	190	225	300	450
220	150	195	215	290	340	405		
330	240	265	320	350	460	535		
470	290	345	380	465	590			
1000	510	605						

UF \ WV	10V	16V	25V	35V	50V	63V	100V	160V
0.47	All Blank Voltage on sleeve markings is same voltage"→"			→	5x11	5x11	5x11	5x11
1				→	5x11	5x11	5x11	6.3x11
2.2				→	5x11	5x11	6.3x11	6.3x11
3.3				→	5x11	5x11	6.3x11	8x12
4.7				→	5x11	5x11	8x12	10x13
10	→		5x11	5x11	6.3x11	6.3x11	8x12	10x21
22	→	5x11	6.3x11	6.3x11	8x12	8x12	10x16	13x21
33	→	5x11	6.3x11	8x12	8x12	10x13	10x21	13x26
47	5x11	6.3x11	6.3x11	8x12	10x13	10x16	13x21	16x26
100	6.3x11	8x12	8x12	10x16	10x20	13x21	16x26	18x36
220	8x12	10x13	10x16	10x21	13x25	16x26		
330	10x13	10x16	10x21	13x21	16x26	16x32		
470	10x13	10x21	13x21	13x26	16x32			
1000	10x13	13x26						