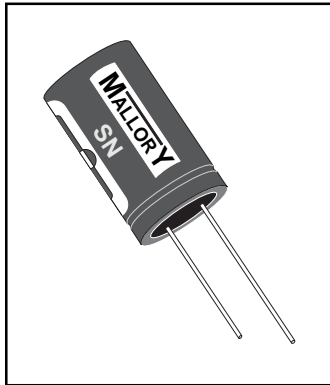


Type SN Radial Leaded Capacitors



- 85°C Non-Polar
- Radial Leads
- Small Size
- Suitable For Use in Circuits Where Polarity is Unknown or Reversed Such as Signal Coupling Circuits & Speakers

GENERAL SPECIFICATIONS

Operating Temperature: -40°C to +85°C
 Voltage Range: 6.3 WVNP to 100 WVNP
 Capacitance Range: 0.47 μ F to 2200 μ F
 Capacitance Tolerance: \pm 20%
 DC Leakage Current:
 $I = .03CV + 3\mu A$ after 5 minutes
 C = Capacitance in μ F
 V = Rated Voltage
 I = Leakage Current in μ A

QA Stability Test:
 Apply WVNP for 1,000 hrs at 85°C with polarity inverted every 250 Hrs.

- Capacitance Change: 25% of initial limits
- DC leakage current meets initial limits
- ESR \leq 150% of initial value

Shelf Life:
 500 hrs - no voltage applied at 85°C

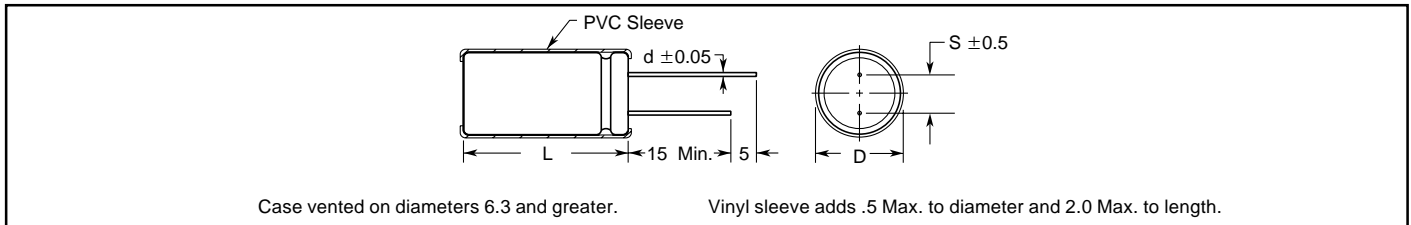
- Capacitance Change: 25% from initial limits
- DC leakage \leq 200% of initial value
- ESR \leq 200% of initial value

SN parts are available taped in Ammo pack and taped and reeled. See page 124 for details.

Dissipation Factor @ 120Hz, 25°C							
WV (V)	6.3	10	16	25	35	50	100
DF(%)	24	20	17	15	14	12	10

For capacitors whose capacitance value exceeds 1000 μ F, the value of DF(%) is increased 2% for every additional 1000 μ F.

Outline Dimensions (Millimeters)



Cap μ F	Max ESR Ohms 120Hz 25°C	Max Ripple mA 120Hz 85°C	Size (Millimeters)				New Catalog Number	Previous Catalog Number
			D Diameter	L Length	S Lead Space	d		

6.3 WVNP; 8 VNP Surge

33	9.65	63	5	11	2	0.5	SN330M6R3ST	NKR330M0JD11
47	6.78	84	6	11	2.5	0.5	SN470M6R3ST	NKR470M0JE11V
100	3.18	140	8	11.5	3.5	0.5	SN101M6R3ST	NKR101M0JF11V
220	1.45	235	10	12	5	0.6	SN221M6R3ST	NKR221M0JG13V
330	0.97	310	10	16	5	0.6	SN331M6R3ST	NKR331M0JG16V
470	0.68	400	10	20	5	0.6	SN471M6R3ST	NKR471M0JG21V
1000	0.32	690	13	25	5	0.6	SN102M6R3ST	NKR102M0JJ26V
2200	0.16	1250	16	32	7.5	0.8	SN222M6R3ST	NKR222M0JK32V

10 WVNP; 13 VNP Surge

10	26.54	42	5	11	2	0.5	SN100M010ST	
22	12.06	57	5	11	2	0.5	SN220M010ST	NKR220M1AD11
33	8.04	77	6	11	2.5	0.5	SN330M010ST	NKR330M1AE11V
47	5.65	93	6	11	2.5	0.5	SN470M010ST	NKR470M1AE11V
100	2.65	193	8	11.5	3.5	0.5	SN101M010ST	NKR101M1AF11V
220	1.21	255	10	16	5	0.6	SN221M010ST	NKR221M1AG16V
330	0.80	380	10	20	5	0.6	SN331M010ST	NKR331M1AG21V
470	0.56	470	13	20	5	0.6	SN471M010ST	NKR471M1AJ21V
1000	0.27	885	16	25	7.5	0.8	SN102M010ST	NKR102M1AK32V
2200	0.13	1450	16	36	7.5	0.8	SN222M010ST	NKR222M1AK35V

Type SN Radial Leaded Capacitors



Aluminum Capacitors

Cap μF	Max ESR Ohms 120Hz 25°C	Max Ripple mA 120Hz 85°C	Size (Millimeters)				New Catalog Number	Previous Catalog Number
			D Diameter	L Length	S Lead Space	d		
16 WVNP; 20 VNP Surge								
10	22.56	42	6	11	2	0.5	SN100M016ST	NKR100M1CD11
22	10.25	69	6	11	2.5	0.5	SN220M016ST	NKR220M1CE11V
33	6.84	98	8	11.5	3.5	0.5	SN330M016ST	NKR330M1CF11V
47	4.80	115	8	11.5	3.5	0.5	SN470M016ST	NKR470M1CF11V
100	2.26	205	10	16	5	0.6	SN101M016ST	NKR101M1CG16V
220	1.03	330	10	20	5	0.6	SN221M016ST	NKR221M1CG21V
330	0.68	445	13	20	5	0.6	SN331M016ST	NKR331M1CJ21V
470	0.48	570	13	25	5	0.6	SN471M016ST	NKR471M1CJ26V
1000	0.23	1020	16	32	7.5	0.8	SN102M016ST	NKR102M1CK32V
25 WVNP; 32 VNP Surge								
1	199.04	17	5	11	2	0.5	SN010M025ST	
2.2	90.47	25	5	11	2	0.5	SN2R2M025ST	
4.7	42.35	34	5	11	2	0.5	SN4R7M025ST	NKR4R7M1ED11
10	19.90	50	6	11	2.5	0.5	SN100M025ST	NKR100M1EE11V
22	9.05	86	8	11.5	3.5	0.5	SN220M025ST	NKR220M1EF11V
33	6.03	105	8	11.5	3.5	0.5	SN330M025ST	NKR330M1EF11V
47	4.23	140	10	12	5	0.6	SN470M025ST	NKR470M1EG13V
100	1.99	240	10	20	5	0.6	SN101M025ST	NKR101M1EG21V
220	0.90	390	13	20	5	0.6	SN221M025ST	NKR221M1EJ21V
330	0.60	580	16	25	7.5	0.8	SN331M025ST	NKR331M1EK25V
470	0.42	690	16	25	7.5	0.8	SN471M025ST	NKR471M1EK32V
35 WVNP; 44 VNP Surge								
3.3	56.30	27	5	11	2	0.5	SN3R3M035ST	
4.7	39.53	34	5	11	2	0.5	SN4R7M035ST	NKR4R7M1VD11
10	18.58	54	6	11	2.5	0.5	SN100M035ST	NKR100M1VE11V
22	8.44	94	8	11.5	3.5	0.5	SN220M035ST	NKR220M1VF11V
33	5.63	125	10	12	5	0.6	SN330M035ST	NKR330M1VG13V
47	3.95	165	10	16	5	0.6	SN470M035ST	NKR470M1VG16V
100	1.86	285	13	20	5	0.6	SN101M035ST	NKR101M1VJ21V
220	0.84	520	16	25	5	0.6	SN221M035ST	NKR221M1VJ26V
330	0.56	630	16	25	7.5	0.8	SN331M035ST	NKR331M1VK25V
470	0.40	820	16	32	7.5	0.8	SN471M035ST	NKR471M1VK32V
50 WVNP; 63 VNP Surge								
0.47	338.80	11	5	11	2	0.5	SNR47M050ST	NKRR47M1HD11
1	159.24	17	5	11	2	0.5	SN010M050ST	NKR010M1HD11
2.2	72.38	25	5	11	2	0.5	SN2R2M050ST	NKR2R2M1HD11
3.3	48.25	31	6	11	2.5	0.5	SN3R3M050ST	NKR3R3M1HE11V
4.7	33.88	41	6	11	2.5	0.5	SN4R7M050ST	NKR4R7M1HE11V
10	15.92	70	8	11.5	3.5	0.5	SN100M050ST	NKR100M1HF11V
22	7.24	115	10	12	5	0.6	SN220M050ST	NKR220M1HG13V
33	4.83	150	10	16	5	0.6	SN330M050ST	NKR330M1HG16V
47	3.39	190	10	20	5	0.6	SN470M050ST	NKR470M1HG21V
100	1.59	310	13	20	5	0.6	SN101M050ST	NKR101M1HJ26V
220	0.72	570	16	25	7.5	0.8	SN221M050ST	NKR221M1HK32V
330	0.48	790	16	36	7.5	0.8	SN331M050ST	NKR331M1HK35V

Type SN Radial Leaded Capacitors



Cap μF	Max ESR Ohms 120Hz 25°C	Max Ripple mA 120Hz 85°C	Size (Millimeters)				New Catalog Number	Previous Catalog Number
			D Diameter	L Length	S Lead Space	d		
63 WVNP; 79 VNP Surge								
1	159.24	17	5	11	2	0.5	SN010M063ST	
2.2	72.38	25	5	11	2	0.5	SN2R2M063ST	NKR2R2M1JD11
3.3	48.25	37	5	11	2.5	0.5	SN3R3M063ST	NKR3R3M1JE11V
4.7	33.88	44	6	11	2.5	0.5	SN4R7M063ST	NKR4R7M1JE11V
10	15.92	74	8	11.5	3.5	0.5	SN100M063ST	NKR100M1JF11V
22	7.24	130	10	16	5	0.6	SN220M063ST	NKR220M1JG16V
33	4.83	175	10	20	5	0.6	SN330M063ST	NKR330M1JG21V
47	3.39	230	13	20	5	0.6	SN470M063ST	NKR470M1JJ21V
100	1.59	410	16	25	7.5	0.8	SN101M063ST	NKR101M1JK25V
220	0.72	660	16	32	7.5	0.8	SN221M063ST	NKR221M1JK32V
100 WVNP; 125 VNP Surge								
0.47	282.33	14	5	11	2	0.5	SNR47M100ST	NKRR47M2AD11
1	132.70	21	5	11	2	0.5	SN010M100ST	NKR010M2AD11
2.2	60.32	34	6	11	2.5	0.5	SN2R2M100ST	NKR2R2M2AE11V
3.3	40.21	49	8	11.5	3.5	0.5	SN3R3M100ST	NKR3R3M2AF11V
4.7	28.23	58	8	11.5	3.5	0.5	SN4R7M100ST	NKR4R7M2AF11V
10	13.27	100	10	12	5	0.6	SN100M100ST	NKR100M2AG16V
22	6.03	180	13	20	5	0.6	SN220M100ST	NKR220M2AJ21V
33	4.02	220	13	20	5	0.6	SN330M100ST	NKR330M2AJ26V
47	2.82	285	13	25	7.5	0.8	SN470M100ST	NKR470M2AK25V
100	1.33	510	16	32	7.5	0.8	SN101M100ST	NKR101M2AK32V

Aluminum Capacitors