

## S-Series Capacitors



NWL's S-Series capacitors are a simple economic package for a variety of uses. With standard sizes of drawn metal housings to choose from, this oil filled or dry resin medium package can provide a range of AC and DC voltages to store capacitance while utilizing an assortment of dielectric systems including extended film foil, metalized film, and hybrid combinations of each.

S-Series capacitors are well suited for many general purpose power modules and applications including:

- AC resonant capacitors
- AC harmonic filtering
- DC filtering
- High energy pulse power
- AC and DC commutation circuits
- GTO snubbers

Unique features of the S-Series capacitor include:

- **Economic package** – Simple drawn can allows for low cost oil filled or resin filled package.
- **Aluminum can option** – For high frequency applications, this product can utilize a non-ferrous aluminum can.
- **General Purpose** – With a range of existing standard can sizes, this product can be used for a wide variety of applications that fall in capacitance and voltage ranges.
- **Painted metal can** – For extra corrosion protection or a bit more heat dissipation, gray painted cans are an option.

### Contact NWL for S-Series Capacitors

Contact NWL for further assistance with AC resonant capacitor, DC filter, DC pulse, S-Series capacitors.

## S-Series Capacitors Product Information and Specifications:

S-Series capacitors utilize a standard metal drawn alum or steel case. Primarily oil filled for enhanced heat management, but also can utilize dry resin filled dielectric systems. This product is manufactured with the latest technological advancements in polypropylene film dielectric systems.

### General Specifications

Capacitance Tolerance	+/- 10%, +/- 5%, +/- 2%
Voltages	DC rating continuous steady state condition DC pk pulse duty, 0 – 100% reversal AC RMS continuous sine wave
Current / Temp Ratings	up to 90 amps RMS @ 55 °C ambient up to 25,000 amp peak @ 40 °C ambient
Inductance	20-180 nH
Operating Temperature	-40°C to +85°C

### Electrical and Mechanical Specifications

Part#	uF	VDC	Vpk	VAC	Current	Current	Can Size	VA
	+/-10%	continuous	pulse	RMS @ 60Hz	RMS@ 55°C	peak	LxWxH(in)	VRMS x ARMS
S00349	20.00	500	600	400	60	10,000	1.97 x 3.66 x 5.38	12000
S00672	0.60	800	1000	400	80	3,000	1.31 x 2.19 x 4.75	10000
S00020	30.00	800	1000	600	40	10,000	2.84 x 4.56 x 6.00	8000
S00628	100.00	1000	1200	200	25	1,000	1.97 x 3.66 x 5.13	2500
S00732	750.00	1000	1500	500	35	5,000	3.75 x 4.56 x 10.50	10000

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Part#	uF	VDC	Vpk	VAC	Current	Current	Can Size	VA
	+/-10%	continuous	pulse	RMS @ 60Hz	RMS@ 55°C	peak	LxWxH(in)	VRMS x ARMS
S00711	100.00	1200	1650	200	5	800	1.91 x 2.91 x 3.88	2000
S00342	10.00	1500	1800	1000	60	10,000	1.97 x 3.66 x 6.88	30000
S00005	15.00	1500	2000	500	60	10,000	2.84 x 4.56 x 4.75	4000
S00013	25.00	1500	1800	700	60	10,000	2.84 x 4.56 x 8.00	10000
11630	75.00	1500	2000	700	60	10,000	3.75 x 4.56 x 8.63	8000
S00095	20.00	1600	2000	750	60	10,000	2.84 x 4.56 x 6.75	15000
S00099	10.00	1750	2100	750	60	10,000	1.97 x 3.66 x 7.25	15000
S00621	0.10	1800	2000	800	60	15,000	1.31 x 2.19 x 2.13	5000
S00622	0.25	1800	2000	800	60	10,000	1.31 x 2.19 x 2.13	5000
S00623	0.50	1800	2000	800	60	10,000	1.31 x 2.19 x 2.88	6500
S00624	1.00	1800	2000	800	60	10,000	1.31 x 2.19 x 4.50	10000
S00625	2.00	1800	2000	800	60	10,000	1.91 x 2.91 x 4.25	12000
10042	4.00	2000	2500	600	25	1,200	1.97 x 3.66 x 3.63	5000
S00580	4.00	2000	2400	1250	80	15,000	1.97 x 3.66 x 5.13	30000
S00735	25.00	2000	2200	300	60	1,600	2.84 x 4.56 x 4.75	4000
S00727	185.00	2000	3000	400	65	10,000	3.75 x 4.56 x 7.75	5000
S00009	50.00	2400	3000	660	60	1,000	2.84 x 4.56 x 6.25	6000
S00716	7.00	2500	3000	800	25	10,000	1.97 x 3.66 x 6.25	5000
S00587	50.00	2500	2850	600	30	5,000	3.75 x 4.56 x 5.50	5000
12560	100.00	2500	3000	375	30	1,575	3.75 x 4.56 x 5.50	5000
S00324	150.00	2500	3000	375	45	2,350	3.75 x 4.56 x 9.00	7500
S00626	200.00	2500	3000	300	60	3,100	3.75 x 4.56 x 10.50	10000
12747	10.00	3000	3500	250	10	300	1.91 x 2.91 x 4.0	4000
12860	10.00	3000	3500	250	10	300	1.91 x 2.91 x 4.00	4000



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### Electrical and Mechanical Specifications

Part#	uF	VDC	Vpk	VAC	Current	Current	Can Size	VA
	+/-10%	continuous	pulse	RMS @ 60Hz	RMS@ 55°C	peak	LxWxH(in)	VRMS x ARMS
S00573	0.05	3200	4000	1250	80	15,000	1.97 x 3.66 x 4.25	30000
S00599	0.13	3200	4000	1250	80	15,000	1.97 x 3.66 x 4.25	30000
S00480	0.25	3200	4000	800	60	10,000	1.97 x 3.66 x 2.82	7500
S00574	0.25	3200	4000	1250	80	15,000	1.97 x 3.66 x 4.25	30000
S00363	0.50	3200	4000	1250	80	15,000	1.97 x 3.66 x 5.38	35000
S00365	1.00	3200	4000	1250	80	15,000	1.97 x 3.66 x 6.88	40000
S00575	2.00	3200	4000	1250	80	15,000	1.97 x 3.66 x 6.88	40000
S00734	32.00	3200	4500	1200	60	15,000	3.75 x 4.56 x 10.50	15000
S00739	50.00	3200	4500	800	40	15,000	3.75 x 4.56 x 10.50	15000
11346A	30.00	3400	4000	300	20	800	3.19 x 3.75 x 4.75	3000
S00718	40.00	3400	3800	660	22	2,200	2.84 x 4.56 x 6.25	4000
S00311	40.00	3500	4500	3200	15	3,000	1.97 x 3.66 x 9.0	4000
S00620	0.05	3600	4000	1250	60	10,000	1.31 x 2.19 x 2.13	5000
S00609	25.00	3750	4500	350	25	2,200	3.75 x 4.56 x 5.50	4000
S00725	70.00	4000	4800	500	50	1,750	3.75 x 4.56 x 10.50	10000
S00730	1.00	5000	6000	1250	40	10,000	1.97 x 3.66 x 6.88	30000
10505	8.00	5000	6000	1000	45	15,000	2.84 x 4.56 x 7.88	8000
S00724	32.00	5000	5500	375	40	1,000	3.75 x 4.56 x 10.50	10000
SX0522	4.00	8000	9500	2400	20	5,000	3.75 x 4.56 x 9.00	12500
S00715	7.00	8000	10000	1000	5	2,000	2.84 x 4.56 x 7.38	5000
S00705	2.00	10500	12500	2400	20	2,000	3.75 x 4.56 x 10.50	25000
10287	4.50	12000	15000	1000	10	500	3.75 x 4.56 x 10.50	10000
S00723	0.50	12500	15000	1500	15	5,000	3.75 x 4.56 x 4.75	7000
S00740	1.50	15000	18000	1500	15	1,500	3.75 x 4.56 x 10.50	5000
S00682	1.20	18000	20000	1200	5	200	3.75 x 4.56 x 10.50	5000
11652	0.01	20000	25000	10000	60	5,000	2.84 x 4.56 x 3.75	5000
11352	0.02	20000	25000	10000	60	5,000	3.75 x 4.56 x 4.75	7000

Note: The above S-Series Electrical and Mechanical Specifications table shows some common existing representative values. Please consult the factory with specific values required that are not found.

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