204 Carolina Drive Snow Hill, NC 28580 phone: 252.747.5943 fax: 252.747.8979

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CONSULT FACTORY WITH DETAIL REQUIREMENTS OR REQUEST TECHNICAL DIALOGUE

# **R-Series Capacitors**

### **Superior Performance and Reliability**

NWL's R-Series IGBT Snubber Capacitors offer superior performance and economy for a multitude of high power IGBT applications.

The R-Series combine high current capability with very low inductance, low dielectric losses and capacitance stability across a wide range of frequencies. They offer the high peak current capability of a film foil capacitor with low inductance connecting terminals.

Our Snubbers are available in a wide range of ratings and can be customized to your exact application. Designers no longer have to compromise between current and inductance; the R-Series can handle currents of up to  $125 \, A_{rms}$  and are cost competitive with fast delivery.

#### **General Specifications**

Capacitance Tolerance: ± 10%

Operating Temperature: -40°C to 85°C

Ripple current: Standard ratings are given

at an ambient temperature of 55°C and a nominal frequency. De-rate the current 1.5%/°C from

55°C to 85°C

Dielectric Strength: 200% of rated DC

voltage, 60 seconds at

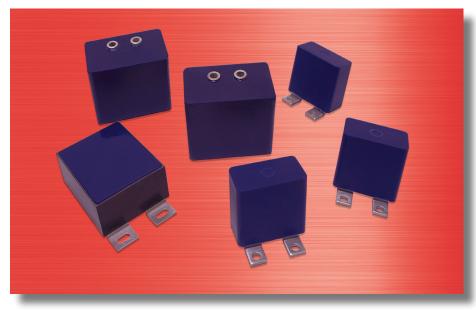
25°C

Series Inductance: < 15 nH

Capacitor Mounting: Typical terminal spacing

of 30 and 40 mm available

to OEM customers



R-Series Capacitors in various configurations.

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## **R-Series Electrical Rating**

NWL Part #	Cap (μF)	Voltage Surge (V <sub>s</sub> )	Voltage AC (V <sub>rms</sub> )	Max Current @ 55°C	Frequency (Hz)	Figure	Space S (in/mm)	Height H (in/mm)
1000 VDC rated snubber capacitor (V <sub>n</sub> = 1000)								
R00116	1	1800	500	75	3000	3	1.18/30	2.88/73
R00108	1.2	1800	500	45	1000	2	1.18/30	3.63/92
R00113	1.2	1800	500	45	1000	2	1.57/40	3.63/92
1200 VDC rated snubber capacitor (V <sub>n</sub> = 1200)								
R00111	0.012	2200	500	25	100,000	1	1.18/30	2.25/57
R00222	0.012	2200	500	25	100,000	1	1.57/40	2.25/57
R00112	0.025	2200	500	25	100,000	1	1.18/30	2.25/57
R00147	0.025	2200	500	25	100,000	1	1.57/40	2.25/57
R00120	0.038	2200	500	38	50,000	2	1.18/30	3.25/82.5
R00143	0.038	2200	500	38	50,000	2	1.57/40	3.25/82.5
R00121	0.06	2200	500	30	25,000	1	1.18/30	2.25/57
R00144	0.06	2200	500	30	25,000	1	1.57/40	2.25/57
R00104	0.5	2200	500	55	10,000	2	1.18/30	3.25/82.5
R00223	0.5	2200	500	55	10,000	2	1.57/40	3.25/82.5
R00117	1.75	1800	500	50	500	2	1.18/30	3.63/92
R00224	1.75	1800	500	50	500	2	1.57/40	3.63/92
1600 VDC rated snubber capacitor (V <sub>n</sub> = 1600)								
R00212	1	2500	450	80	3000	4	1.57/40	3.38/86
R00138	1.5	2200	450	80	1000	4	1.57/40	3.38/86
R00188	1.5	2500	700	25	100	2	1.57/40	3.25/82.5

