

TP-Series Capacitors



NWL's TP-Series capacitors are the ideal low voltage, high frequency, AC resonant capacitor solution. The low inductance terminals allow for low resistant connections to printed circuit boards (PCBs) or laminate bus structures.

TP-Series capacitors are well suited for high frequency and high currents in power supply applications including:

- VAC RMS resonant tank circuits
- Low impedance loads

Unique features of the TP-Series capacitor include:

- **Low Inductance Terminals** – Able to mount capacitor on printed circuit boards or laminate bus structure.
- **Lightweight** – The aluminum case with resin filled construction keeps unit light enough to secure with terminals only.

No additional brackets required.

TP-Series Capacitors Product Information and Specifications

TP-Series capacitors utilize a high RMS current, high frequency polypropylene film dielectric systems. Secured in UL 94V-0 thermosetting dry resin encapsulation.

General Specifications

Capacitance Tolerance	+/- 10%, +/- 5%, +/- 2%
Voltages	DC rating continuous steady state condition DC pk pulse duty, 0 – 100% reversal DC surge 1 minute 1 time per day AC rms sinewave @ 10-500 kHz Test T-T @ 1.5 VDC, 10 seconds Test T-C @ 2.0Vpk dc + 1000 V, 10 seconds
Current / Temp Ratings	ripple rms current @ 55 °C ambient peak current @ 40 °C ambient VAC RMS x Amps RMS max value
VA	VAC RMS x Amps RMS max value
Inductance	3-8 nH
Operating Temperature	-55 °C to +105 °C
Encapsulation	UL 94V-0 thermosetting resin

Electrical Ratings Overview

Part#	uF	VDC	Vpk	VAC	Current	Current	Can Size	VA
	+/-10%	continuous	pulse	RMS @ 60Hz	RMS@ 55°C	peak	LxWxH(in)	VRMS x ARMS
TP0190	0.063	1600	2000	800	40	2,500	1.25 x 2.10 x 2.30	10000
TP0191	0.125	1600	2000	800	40	2,500	1.25 x 2.10 x 2.30	10000
TP0195	0.188	1600	2000	800	50	2,500	1.25 x 2.10 x 3.13	15000
TP0192	0.250	1400	1800	700	40	2,500	1.25 x 2.10 x 2.30	10000
TP0203	0.250	1600	2000	800	50	2,500	1.50 x 4.00 x 2.00	15000
TP0193	0.330	1200	1600	600	40	2,500	1.25 x 2.10 x 2.30	10000
TP0194	0.500	1000	1400	500	40	2,000	1.25 x 2.10 x 2.30	10000
TP0301	0.500	1600	2000	800	100	5,000	2.75 x 4.00 x 2.00	20000