



**Power Ring
Film Capacitor™
vs. Conventional Array
of Film Capacitors**



**How does the Power Ring "stack-up" to a conventional array of discrete units?
Relatively speaking here's a comparison.**

Box size: 7.3" x 7.3" x 1.5"
Voltage Rating: 600 VDC
Dielectric: Metallized Polypropylene

Power Ring - 1 unit

Capacitance:	1000 μ F
O.D:	7.3"
I.D:	1.0"
Thickness:	1.46"

Array, 10 units of 110 μ F each

Total Capacitance:	1100 μ F
Individual unit Length:	3.4"
Individual unit Diameter:	1.46"



The Mechanical Advantage

- Simplified mechanical assembly
- Integration to bus structure flexibility
- Power Ring's large surface area can be directly connected to a cold plate

The Electrical Advantage

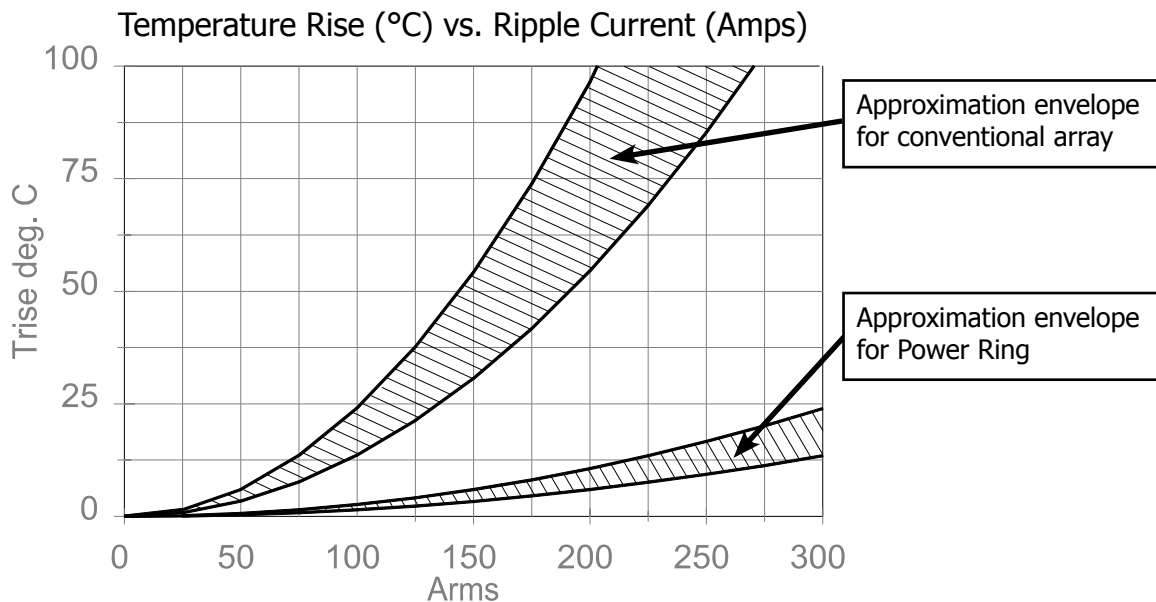
Ripple Current improved by a factor of 3+!

- Power Ring = 200+ Amps
- Array = ~65 Amps

Assumes a +10°C temperature rise from the capacitor's end spray surface to the capacitor's internal hot spot, when both sides of the capacitor are held at the same temperature.

The Thermal Advantage

- Temperature rise of the conventional array, for a given applied ripple current, is greater than 5 times that of the Power Ring. See comparison data below.
- ***Direct connection of the large surface area of the Power Ring to a chill plate can further reduce the temperature rise beyond that of the array!***



Data assumes both sides of the capacitor held at the same temperature

ISO 9001:2000



Contact us today to discuss your specific requirements.