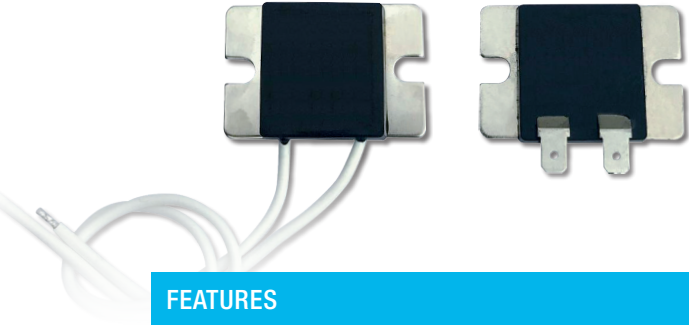


MINIATURE 300 W HEAT-SINK RESISTORS



RCD COMPONENTS INC. introduces new miniature 300W Heat-Sink resistors! Attached to a suitable air- or water-cooled heat sink, RCD's CM300 proprietary flame retardant epoxy insulation ensures optimal environmental protection & dielectric strength. Excellent for applications such as inverters, power supplies, laser systems, DC-DC converters, X-ray/radio frequency generators, medical equipment, snubber circuits, bypass and coupling circuits

FEATURES

- 300 W with low profile & small size
- Non-inductive, light weight
- High stability / reliability
- Wide resistance range
- Up to 5 KV insulation voltage available
- Virtually vibration-proof
- -55°C to +175°C operating temperature
- Low cost, quick delivery (available on *SWIFT™* program)

OPTIONS

- Military burn-in/screening and numerous design modifications are available such as flexible leads of different diameters / lengths / materials, custom values, custom marking, lead / Pb terminations, etc.

APPLICATIONS

- Inverters, power supplies, laser systems, DC-DC converters, X-ray/radio frequency generators, medical equipment, snubber circuits, bypass and coupling circuits

REQUIREMENTS	CHARACTERISTICS, TYP.	TEST METHOD
ELECTRICAL SPECIFICATION		
Power Rating	300 W	At flange temp. $\leq +25^{\circ}\text{C}$
Resistance Range and Tolerance	0.1 Ω to 1 M; 2% 5% & 10% standard	
Temperature Coefficient	± 100 ppm	+25°C to +125°C except opt.L in low values
Operating Temperature Range	-55°C to +175°C	Measured at flange surface
Max Working Voltage	1000 V (up to 2000 V available)	$E = \sqrt{P \times R}$ or 1 KV (up to 2 KV)
Dielectric Strength	2 KVAC (up to 5KV available)	60 sec. between terminal & flange
Load Life Stability	$\pm 1\%$	Continuous power, 1000 hours
Moisture Resistance	$\pm 1\%$	60°C 90 - 95% RH 1000 hours
Insulation Resistance	> 1000 Megohms	Between terminals & flange
Derating	300 W at 25°C to 0 W at 175°C	Derate linearly
Thermal Impedance	0.23 W/°C	From resistor to flange