

DATA SHEET

SUBMINIATURE PROPORTIONALLY CONTROLLED HEATER

GENERAL DESCRIPTION

The DN515-1528 is a subminiature proportionally controlled heater whose temperature can be programmed with a single external resistor. This device is ideally suited for regulating the temperature of sensitive electronic components such as microwave filters and crystal oscillators. The DN515-1528 is in a ceramic package and can supply up to 28 watts of power from an unregulated 15 Volt power supply.

FEATURES

- BERYLLIA BASE FOR GOOD THERMAL CONDUCTION
- REGULATION TEMPERATURE FROM 5°C ABOVE AMBIENT TO 100°C
- 15 VOLT OPERATION
- ELECTRICALLY ISOLATED FROM THE CASE

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Supply Voltage	Vdd	20	Vdc
Reverse Voltage (Pin 1 to Pin 2)	VR	-50	Vdc
Power Dissipation	P₀	35	Watts
Operating Temperature	Тмах	120	°C
Storage Temperature	Тмін	-65 to +150	°C

Characteristic	Symbol	Min	Max	Unit
Supply Voltage (Pin 1 to Pin 2)	Vdd	+9	+28	Vdc
Steady State Supply Current @ Vpp = +15 Vdc	ls	0.005	2.0	Adc
Temperature Variation over Operating Voltage	ΔΤν		2	°C
Temperature Variation with Load	ΔΤι		10	°C
Control Temperature Range	Tc	Ta +5	100	°C
Control Resistor Value Pin 3 to Pin 4 (See Chart)	Rs	0		Ohm
Maximum Control Temperature when Rs= 0 Ohms	Тмах		120	°C
Turn on power at start-up @ Voo = +15 Vdc	P₀	26	30	Watts



T_A ---- Ambient Temperature



DN515-1528

ThermOptics®

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