



Features:

- ◆ Beryllia base for good thermal conduction
- ◆ Regulation temperature from 40°C to 100°C
- ◆ Electrically isolated from the case
- ◆ Epoxy encapsulated
- ◆ 3 to 7 volt operation

**Miniature Proportionally
Controlled Heater**

Description:

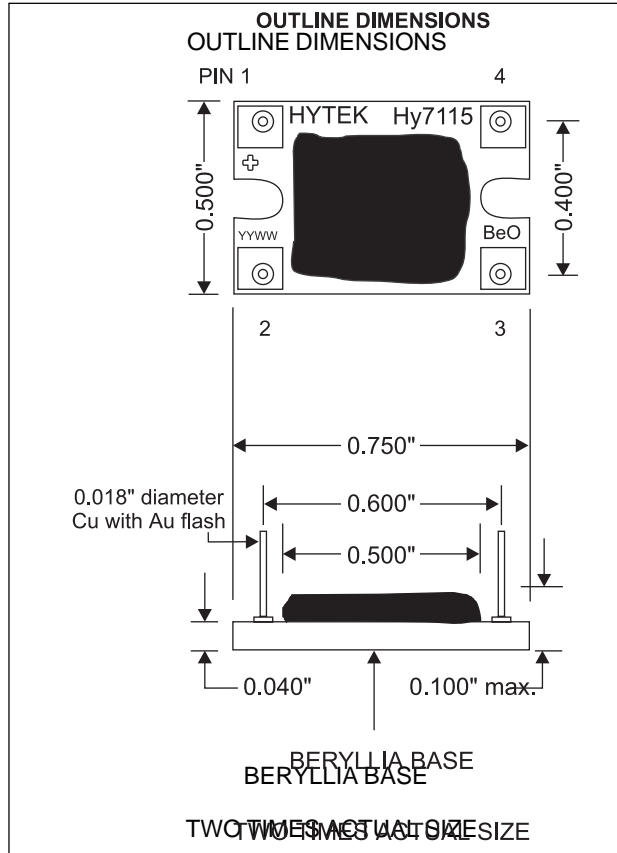
The HY7115 is a miniature proportionally controlled heater whose temperature can be programmed with a single external resistor. This device is ideally suited for regulating the temperature of sensitive electronic components such as microwave filters, planar optical waveguides, multiplexers and crystal oscillators. The HY7115 in a ceramic package can supply up to 14 Watts of power from a 8 Volt supply.

Maximum ratings:

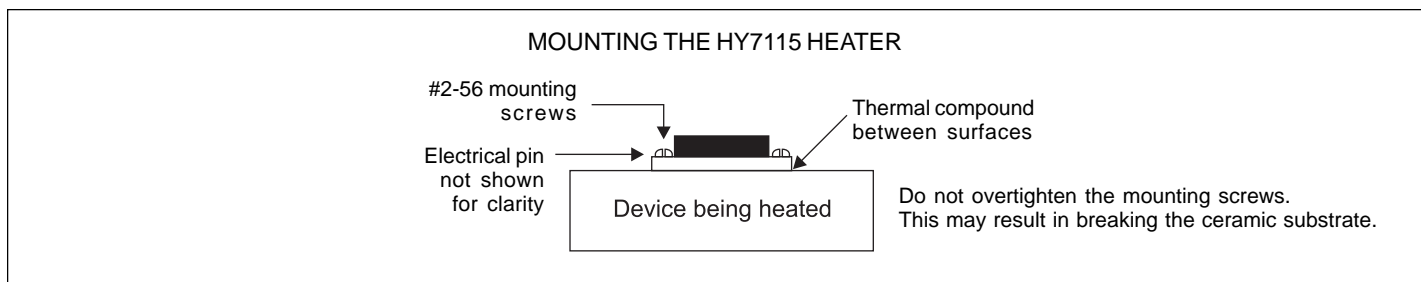
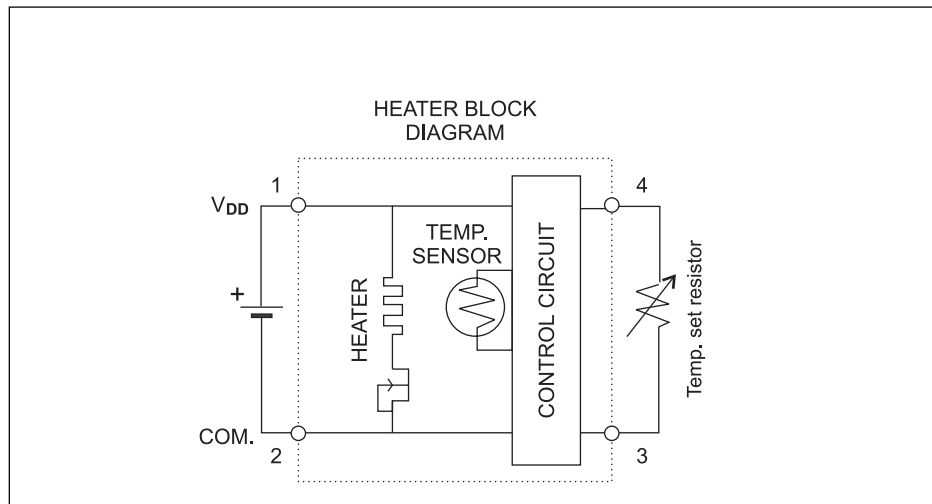
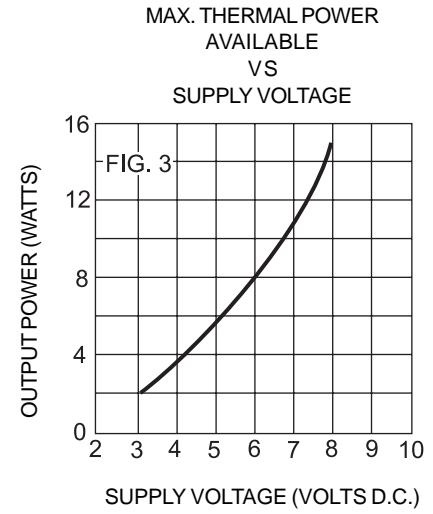
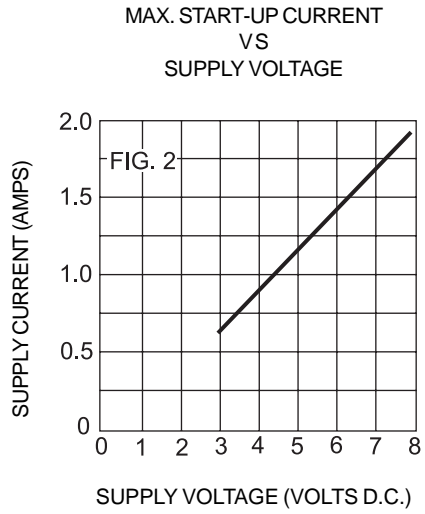
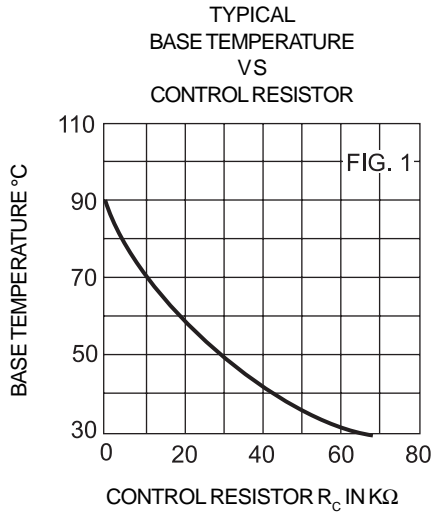
Rating	Symbol	Value	Unit
Supply Voltage	V _{DD}	8	Vdc
Reverse Voltage	V _R	0	Vdc
Power Dissipation	P _D	14	Watts
Operating Temperature (Case)	T _{MAX/MIN}	100/-20	°C
Storage Temperature Range		-65 to +150	°C

Operating characteristics:

Characteristic	Symbol	Min	Max	Unit
Supply Voltage (Pin 1 to Pin 2)	V _{DD}	+3	+8	Vdc
Steady State Supply Current @ V _{DD} = +5 Vdc	I _s	0.015	1.16	Adc
Temperature variation over operating voltage (no load)	ΔT _V		1	°C
Temperature variation with load and V _s = 5V	ΔT _L	--	1	°C
Control Temperature Range	ΔT _C	40	100	°C
Control Resistor Value (P3-P4)	R _C	0	60K	Ω
Max. Control Temp. (R _C =0Ω)	T _{MAX}	-	100	°C
Turn-on Power (V _{DD} = 5V)	PD	5.6	6.0	Watts



HY-7115
Micro-Heater, 5V



NOTES:

1. Optimum heat transfer between the HY7115 and the device being heated occurs when a thermal compound, such as Dow Corning 340, is applied to the mounting surface of the heater.
2. Special environmental and electrical screening is available on request.
3. Special custom engineered micro-heater available on request.