15 W Resistive Cartridge Heater



HT15W

Description

The HT15W is a Ø0.122" x 1/2", 15 W heating element rod with 2.5" (typical) leads compatible with heater controllers that can provide sufficient output power, including Thorlabs' TC300.

Specifications

HT15W	
Power (Nominal)	15 W @ 24 V
Power Range[1]	12.5 W (Min) to 18.0 W (Max)
Heater Resistance[2]	27.6 Ω (Min) 41.1 Ω (Max)
Maximum Block Temperature	500 °F (260 °C) (When Installed in a Ø0.125" Bore in a Metal Block)
Diameter	0.122" ± 0.002" (3.1 mm ± 0.05 mm)
Sheath Length (Overall)	0.50" ± 0.045" (12.7 mm ± 1.1 mm)
Heated End Length	0.25" ± 0.030" (6.35 mm ± 0.76 mm)
Cold End Length	0.25" ± 0.030" (6.35 mm ± 0.76 mm)
Lead Length	2.5" Typ. (63.5 mm)
Sheath Material	Stainless Steel Type 304
Recommended Bore Diameter for 0.006" Fit	0.125" +0.001"/-0.000"



Application Information

Maximum Lead Exit Temperature: The lead exits of the heater are insulated with PTFE end caps. While the heater body may be operated at much higher temperatures, the PTFE caps should never exceed 500 °F (260 °C).

Use of Release Agents: The HT15W is guaranteed not to seize in any installation. Because of this the use of release agents is unnecessary and not recommended. However, these agents may still be applied if desired. In some cases the release agent may enter the heater and cause a temporary loss of insulation resistance. This can be restored by warming the heater to 250 °F (120 °C) prior to application of full power.

[1] *As manufactured, not tested.*
[2] *The resistance will change upon first use and may increase up to 8% after 1 hour of use.*