

THERMOREGULATOR APPARATUS FOR ELECTRONIC DEVICES WITH CYLINDRICAL GEOMETRY

Description:

One of the most common problems in electronic engineering is finding solutions to the problem of thermoregulation of electronic circuits and components that must maintain specific thermal conditions for their operation. Semiconductor devices, by their nature, are strongly temperature dependent. When semiconductors are used in sensors and actuators, a thermal control strategy must be devised to ensure that they remain within the proper thermal performance ranges. Thus, the present invention presents a thermal regulating device whose object is to keep the temperature of an electronic device with cylindrical geometry at a constant value in all the space that surrounds it so that the absorption or transfer of heat in that space is carried out in a manner homogeneous thus achieving the stability of its electrical characteristics, the non-mechanical deformation and the increase of its durability.

Keywords:

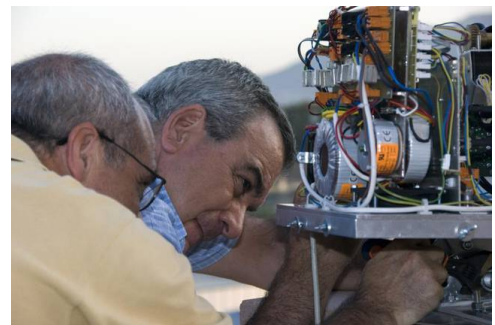
[Device](#), [Sensors](#), [Electronics](#), [Thermoregulator](#), [Cylindrical Geometry](#)

Sectors:

[Engineering](#), [Electronics](#)

Areas:

[Equipment](#), [Components](#), [Mechanics](#)



Advantages:

Among the main advantages of the present invention are the fact that it allows the minimization of mechanical stresses generated in electronic devices, as well as the stabilization of their electrical characteristics and the increase of their durability.

Uses and Applications:

The technology presented has its application in the field of thermal control and regulation in electronic components and devices.

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