

TP-TYPE THERMOELECTRIC CONVERTERS



Areas of Application

The devices are to be used for converting arbitrary shaped AC signals in wide frequency range (from fractions of hertz to several hundred megahertz) to DC thermopower functionally related to effective value of converted signal

Specification

Heater resistance, ohm	0.5–9.5
Nominal current, mA	10–150
Nominal EMF, mV	≥4.5–10
Overload capacity, % of nominal current	120
Insulation resistance, Mohm	≥50
Thermocouple resistance, ohm	≤15
Time constant, s	≤1,5
Coupling capacitance, pF	≥1,2
Weight, g	0.5

Advantages

These devices have the smallest dimensions among the known thermal converters (height 5.5 mm, diameter, without mounting wires 5 mm), which significantly improves the accuracy and reliability of research. They have a higher sensitivity, a better overload capacity, a higher output thermopower, and a wider operating frequency range. There are no analogs

Stage of Development.

Suggestions for Commercialization

IRL7, TRL6

Manufactured and supplied, upon request

IPR Protection

IPR3

Contact Information

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