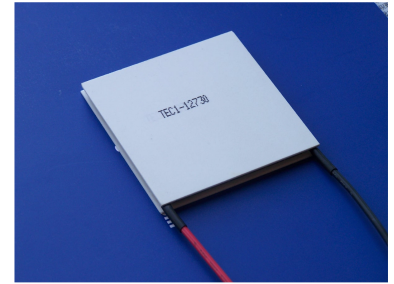


# Thermoelectric Peltier Cooler Module

The thermoelectric cooler, also known as a Peltier module, is a solid-state heat pump that transfers heat from one side of the device to the other. It operates on the Peltier effect, where a temperature difference is created by applying a voltage across the device.



## Overview

### High-Efficiency Thermoelectric Cooling

The Thermoelectric Peltier Cooler Module (TEC1-12730) serves as a precision solid-state heat pump designed to transfer heat efficiently from one side of the device to the other. Operating on the Peltier effect, this compact module creates a reliable temperature difference when voltage is applied, making it an ideal solution for cooling sensitive electronic components and temperature stabilization. Its robust, solid-state construction ensures long-term performance for applications ranging from portable refrigeration systems to thermal management in industrial equipment.

## Technical Specifications

Model Identifier	TEC1-12730
Technology	Peltier Effect (Solid-State Heat Pump)
Common Applications	Electronics Cooling, Portable Refrigeration, Temperature Stabilization, Thermal Management

## Key Features

### Design Features

- Compact form factor
- Solid-state design
- Insulated electrical leads
- Direct current operation