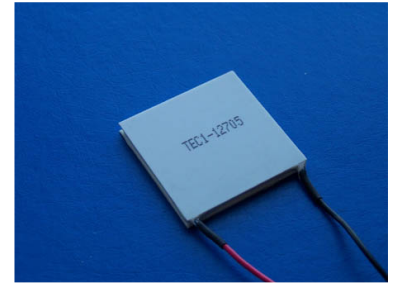


# Thermoelectric Cooler Peltier Module

This thermoelectric cooler (TEC) module, also known as a Peltier module, operates based on the Peltier effect. An electric current creates a temperature difference between its two sides, making one side hot and the other cold.



## Overview

### Thermoelectric Cooling Technology

The TEC1-12705 is a high-performance thermoelectric cooler (TEC) module designed for precise thermal management. Utilizing the Peltier effect, this module generates a temperature differential between its two sides when an electric current is applied, making it ideal for localized cooling or heating. It is a versatile solution for scientific equipment, electronic devices, and applications requiring stable temperature control.

## Technical Specifications

Model Number	TEC1-12705
Operating Principle	Peltier Effect

## Performance Metrics

### Key Performance Metrics

**12 V**

Voltage Rating

**5 A**

Current Rating

## Applications

### Suitable Applications

- Electronic device cooling
- Scientific instrumentation
- Localized temperature control
- Thermal cycling applications