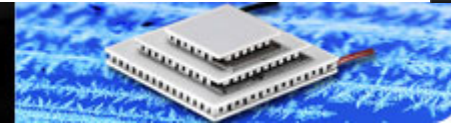


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**Products Overview****Ferrofluid****Ferrofluidic Seal Solutions****Thermal Solutions**

Thermoelectric Modules

Single-Stage Modules

Two-Stage Modules

Three-Stage Modules

Mini Modules (1.2 to 2.5 Amps)

Center-Hole Modules

Multi-Hole Modules

Round Modules

Thin-Film Substrate Modules

Thermal-Cycling Modules

High-Power Modules

Custom Thermoelectric Modules

Module Sealing Options

Module Model Numbering System

ROHS Compliance

Temperature Controllers

Thermoelectric Subsystems

Thermoelectric Power Generation

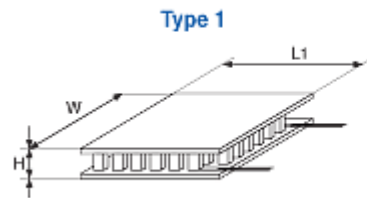
Fabricated Quartz Solutions**Vacuum Coating Solutions**

Ferrotec Multi-hole Thermoelectric Modules - Peltier Cooler Model 9507/023/012 M

Peltier cooler model 9507/023/012 M is a member of Ferrotec's family of Multi-hole modules. The 9507/023/012 M peltier cooler is a 23-couple, 1.20-amp module. The 'M' code indicates that this standard thermoelectric cooler features a solderable, metalized ceramic substrate on both hot and cold side external surfaces (see [Ferrotec's module model numbering system page](#) for more information).

9507/023/012 M — Mechanical Characteristics

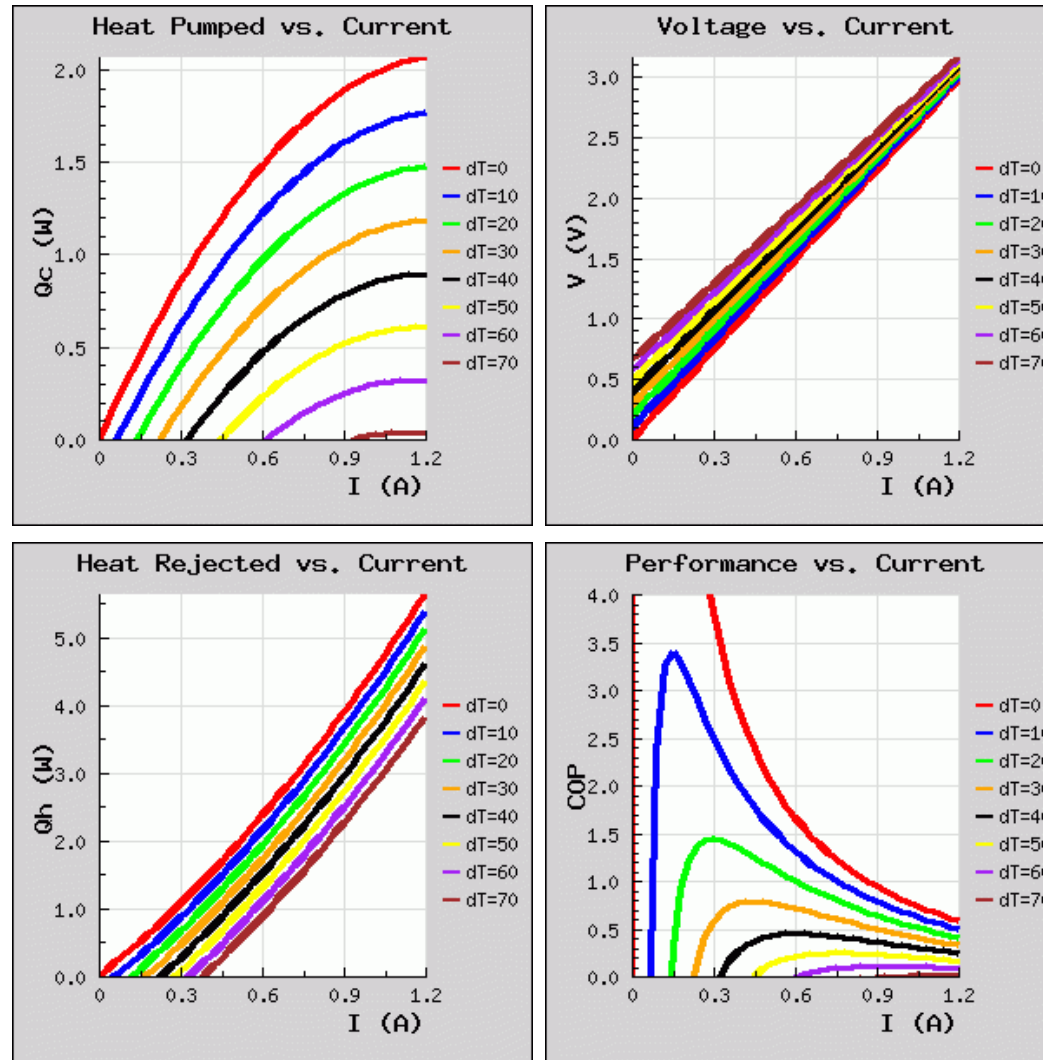
| | |
|-------------------|------|
| W1 Dimension (mm) | 8.65 |
| L1 Dimension (mm) | 8.65 |
| Height (mm) | 2.14 |



Standard Performance Curves

Values calculated at 50°C.

| | | | |
|-------|------|--------|-------|
| I Max | 1.20 | ΔT Max | 70.00 |
| V Max | 3.20 | Qc Max | 2.00 |



Custom Options

Ferrotec can also customize a Multi-hole Module for you based on the 9507/023/012 M.

Note: minimum quantity custom order limitations apply.

About Ferrotec's Multi-hole Module Family

The peltier coolers in Ferrotec's Multi-hole Thermoelectric Module series have been specifically designed for 5.6 mm CAN type laser diodes. The increased contact area between the TEC and the laser diode package enables more uniform cooling and the target temperature to be achieved more rapidly. The optimized thermal contact area results in very stable thermal performance for the diode. Standard thermoelectric coolers are available for laser diodes with diameters ranging from 3.5-9.0mm. For other specific laser diode sizes or specialized peltier cooler design requirements, please contact your Ferrotec representative.

