

## THERMOELECTRIC COOLING MODULES FOR SPACE APPLICATION

### Areas of Application

The modules are designed for cooling and thermal stabilization of CCD arrays used in attitude control systems of low-orbit and geostationary satellites

### Specification

The modules provide thermal stabilization of CCD arrays at  $-10\text{ }^{\circ}\text{C}$  at a cooling capacity of  $0.65\text{ W}$  and an operating temperature of  $+65\text{ }^{\circ}\text{C}$ . The modules withstand shock loads with a negative acceleration up to  $1900\text{ g}$

### Advantages

The designed service life is 20 years. The thermoelectric modules outperform the known world analogs in key parameters. There are no analogs in Ukraine. Due to their high quality and improved reliability, the modules can find application in terrestrial telecommunication systems as well

Stage of Development.  
Suggestions for Commercialization

IRL7, TRL6

Manufactured and supplied, upon request

IPR Protection

IPR3

### Contact Information

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