

Thales Cryogenics

The Thales Group, Competence Center Cryogenics

With more than 40 years of experience and over 100.000 coolers manufactured, Thales Cryogenics is an authority in the field of miniature cryocoolers. Our coolers have proven to provide excellent performance under extreme conditions, combining high reliability with affordability. Utilizing the latest innovative design and manufacturing techniques, Thales Cryogenics has become the world's innovation leader in miniature Stirling and Pulse tube coolers.

With the Thales group, cryogenic coolers are used primarily to cool IR-sensors in a large variety of applications. The final utilization could be in either military equipment, civil applications, or observation instruments in space. The technology and product development achieved in the past decade for these IR markets segments have also found their way in other markets under which Big Science markets.

Thales Cryogenics owes its right of existence to its broad product portfolio for cooling small sensors and circuits. A typical use of our coolers is for the cooling of compact, sensitive detectors to cryogenic temperatures between 40 and 150 Kelvin. Its coolers can be used where an equivalent cooling power of less than 25W cooling power at 77K is required.

Due to the high level of involvement of Thales Cryogenics in the realization of the final concept and integration of the cooling system in the final application system integration errors could be avoided. For this purpose, the organization has to have at its disposal: an extended product palette, a solid technological and industrial background, excellent support to customers, and knowledge and skills w.r.t. design, development, and manufacturing of drive electronics.

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