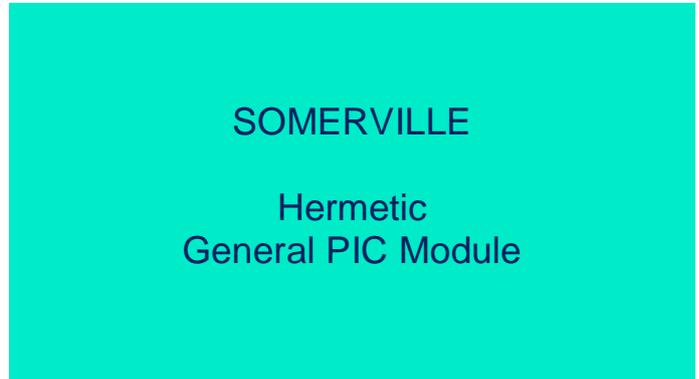
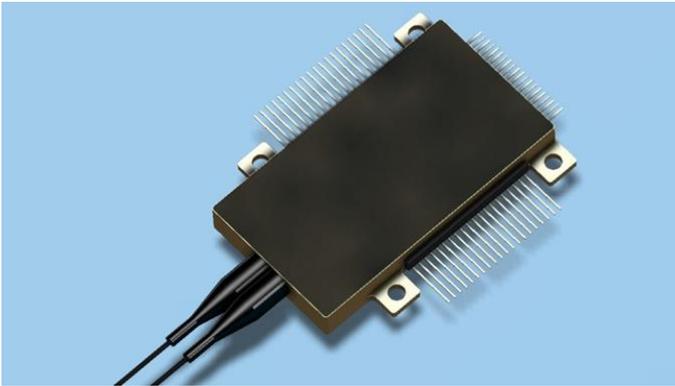


# STANDARD PIC HERMETIC PACKAGING MODULE.

49.8x27x6.5mm



The Somerville Standard PIC Packaging is hermetic\*, short leadtime, low cost, packaging solution for early PIC industrial trial and evaluation testing, full system, and production volumes. These PIC packages are fabricated using Alter Technology UK's advanced techniques that employ high reliability telecoms manufacturing and space qualified processes to minimise size and maximise stability and reliability.

## Applications

Automotive LIDAR/Telecoms/Space/Quantum Technology.

## Key Features

- Hermetically sealed for high reliability applications – Standard 1 or 2 fibre (edge coupling).
- Short leadtime in industrial packages for insitu application testing of upto 2 pics in one package
- Integrated TECs and temperature sensor for precision control in harsh environments.
- Manufactured using space & telecoms qualified processes.
- Options include \*
- SM/PM/MM fibre & choice of connectors
- High speed RF
- Up to 16 fibres – non hermetically sealed, & lower cost quasi-hermetic plastic package – Future development.
- Space certified build and testing available for 2 fibre packages in conjunction our partners Alter Technology Spain.

## ALTER TECHNOLOGY

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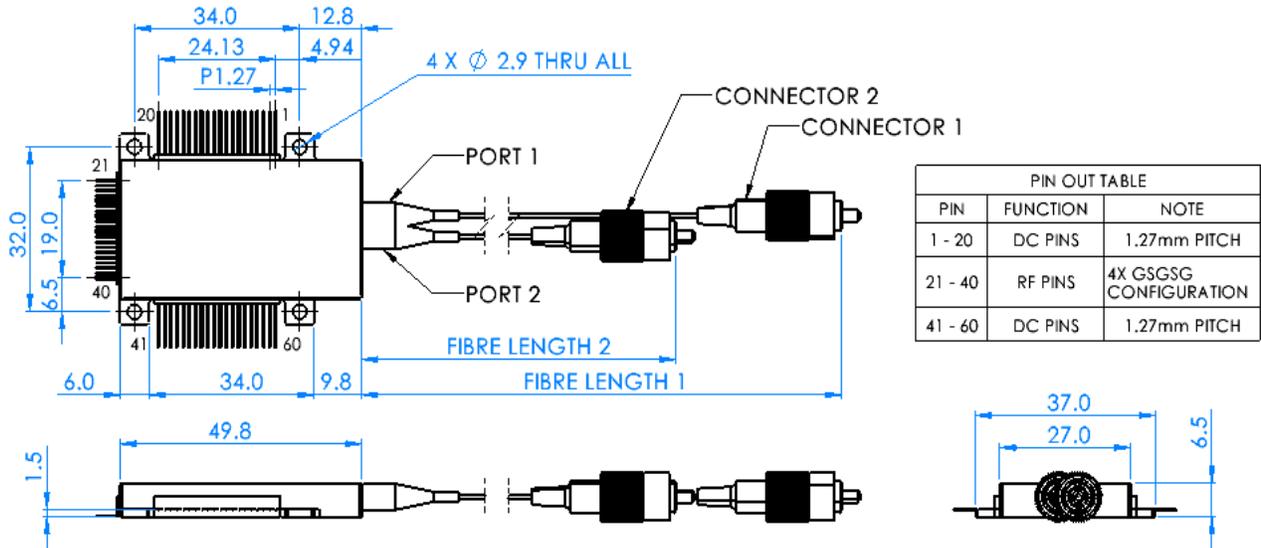
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## Mechanical Dimensions



It is highly recommended that custom PIC designs follow the Alter Technology UK (Q)PIC Design Guidelines (document 572-580-xx) available upon request.

## Typical Performance / Specification<sup>+</sup>

Parameter	Value
Wavelength	700 – 1600 nm
Fibre Connects	1 or 2 edge coupled, eventually up to 16*
Fibre Type	SM, PM and MM
Fibre Length (1 & 2)	1000 mm typically – Port 1 & 2 independent *
Connector (1 & 2)	FC/APC typically – FC/PC, FCx, LC, SC, MTP *
Port 1 and 2	Fibre Length, Type and Connector are independent
Insertion Loss	3dB per fibre typically (device dependent)
RF	Up to 30 GHz – 8x signal pins available
Temperature Control	TEC and 10K thermistor built in
TEC Power	5.2 W (single TEC) or 10 W (Twin TEC's)
Drive Current	< 5 A
Operating Temperature Range	-5 °C to +65 °C typical

### NOTES

- Alter Technology UK offers a limited warranty on workmanship for all platforms as they are supplied in the understanding they are engineering samples for R&D applications/OEM Integration. For full details of this warranty coverage, please contact Alter Technology.
- +Alter Technology follows a policy of continuous product improvement and thus specifications are subject to change without notice.

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