

COMPACT & ROBUST TAPERED AMPLIFIER

30x12.7x8.9mm



TALENT

**Fibre Coupled 14 Pin BTF
Tapered Amplifier**

Under Development

The Talent tapered amplifier module is designed for applications where reliability is key. The module is fabricated using Alter Technology UK's advanced packaging techniques that to maximize mechanical/thermal and optical stability and reliability.

Key Features:

- 780nm Standard hermetically sealed housing
- Optical powers >2W CW
- Fibre input, free space output
- Serialization and OEM laser marking

The Talent module has been developed in conjunction with the Fraunhofer Centre for Applied Photonics, Glasgow UK



The Talent development program was initiated with support from Innovate-UK

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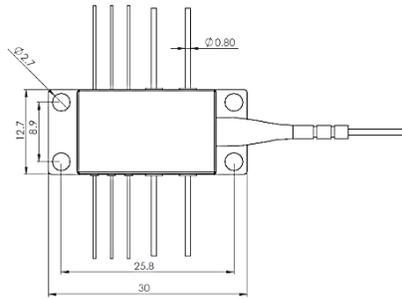
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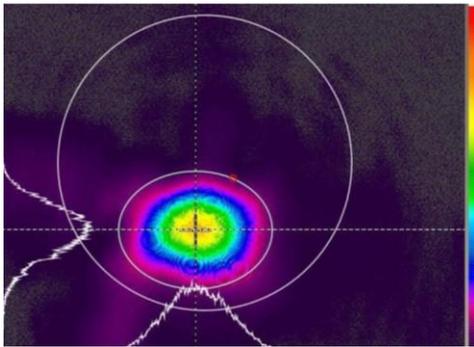
Mechanical Dimensions



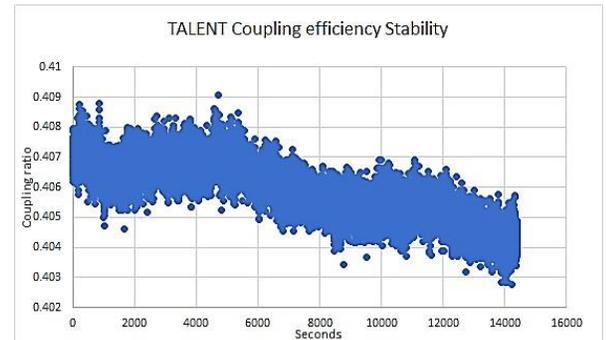
The Talent module enables tapered amplifiers to be packaged in a standard housing.

Expected Performance

Beam profile



Stability



Parameter	Value	Comment
Wavelength* (nm)	780 & 852	Other wavelengths under consideration, please enquire for details
Gain	Dependent on Chip	
Coupling Efficiency	Typical -3dB coupling into TA	PM fibre input
TEC Power (W)	12W Max	
Drive Current (Max) (Amps)	<5 A (CW or pulsed)	
Operating Case Temperature	+10 °C to +40 °C	External heat sinking
Diode Operating Temperature	+20 °C to +30 °C	

NOTES

- Alter Technology UK offers a limited warranty on workmanship for all engineering samples for R&D applications, and as such laser safety/system classification is the responsibility of the integrator, for full details please contact Alter Technology.
- Please note that Alter Technology provides no reliability or life span data or warrantee as these modules are currently under development.
- +Alter Technology follows a policy of continuous product improvement and thus specifications are subject to change without notice.