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ATHERMAL WAVELENGTH REFERENCE

**Patents pending*

- Based on Fiber Bragg Grating design
- Athermal packaging, extremely stable from -5°C to 70°C
- Compact design and flexible configuration
- Ideal for wavelength identification and calibration

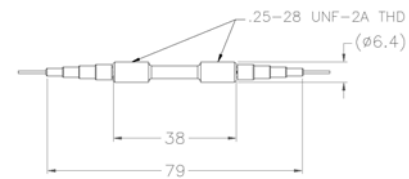
The Fibera **Athermal Wavelength Reference (WAVR)** is extremely stable from -5 to 70°C, and is ruggedly packaged in a mechanical housing. The WAVR's compact form factor allows users to install these devices in places that have stringent dimensional constraints. These packages can be custom made to specific wavelength desired.

Due to its absolute long term accuracy and insensitive to environmental changes, WAVR is useful as calibration reference and for precise wavelength control and measurement. The low loss of these references enables users to divert minimum power to these devices for wavelength referencing or wavelength locking applications.

When used in conjunction with Fibera's Fabry-Perot ITU Filter (FPIF), an extremely accurate athermal wavelength reference can be produced for fast scanning lasers to improve sampling rate and test throughput.

SPECIFICATIONS

Parameters	Specifications
Dimensions	79mm long x 6.4mm dia.
Operation Range	1520 – 1620nm
Center Wavelength	± 0.1nm
Reflection Bandwidth	≤ 0.2nm
Transmission Bandwidth	≤ 0.1nm
Thermal Stability	< 80 pm (-5°C-70°C)
Contrast	> 30 dB
PDL	≤ 0.2dB
Adjacent Channel Isolation	> 20dB
Reflectivity	> 90%
Fiber Type	SMF – 28
Package	Loose tube or 3 mm cable
Storage Temperature	-40°C to 85°C
Operating Temperature	-5°C to 70°C
Pigtail Length	1.5m



Mechanical Dimensions

