0401 Sum Frequency Generator Module (SFG)

SFG-775-30-M

775 nm Sum Frequency Generator Module, 30 mm

SFG-775-30-M is a fully integrated Sum Frequency Generator module, incorporated in the module is a 30 mm long Periodically Poled Lithium Niobate(PPLN) waveguide device (SFG-775-30-PG) for near-IR light generation. Within the device there is a built-in TEC and a Thermistor for precise temperature controlling. The SFG-775-30-PG is mounted on a precision temperature controller PTC-5000-MC. This module can be pumped at 1550 nm wavelength window for up-conversion of photons into the 775 nm light-wave. The spectrum of the output may be tuned by either tuning the pump laser wavelength or by adjusting the temperature through the module.

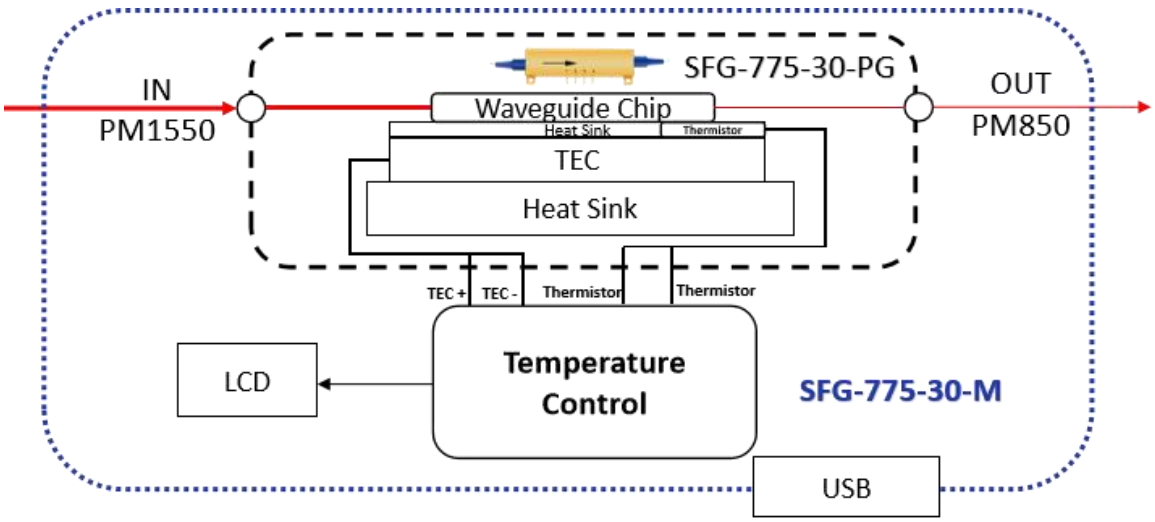
FEATURES

- SFG/SHG/DFG
- Built-in TEC, Thermistor, Heatsink
- Spatially Uniformed PPLN
- PM Fiber Pigtailed In/Out
- Precise Temperature Controller
- Fine Wavelength Tuning

USE IN

- 775 nm Light Source
- SFG Spectroscopy
- Frequency Doubling
- Wavelength Conversion

FUNCTION DIAGRAM



Order notes to our customers: For special needs, please contact sales.

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Substrate	Z-cut, X-propagation PPLN
Waveguide	Titanium In-diffusion
Pump Power Threshold @ CW	30 mW max.
Avg. Pump Power @ Pulsed Pump*	50 mW max.
Degeneracy Bandwidth @ 1550 nm FWHM	1.20 nm
Insertion Loss	5.0 dB max. (4.0 dB typ.) @ 1550 nm
Input Fiber Type	PM1550
Output Fiber Type	PM850
In/Output Connector Type	FC/APC
Chip Dimension	5x2x1 mm
Operating Temperature	10 °C to +65 °C
Storage Temperature	-20 °C to +80 °C

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