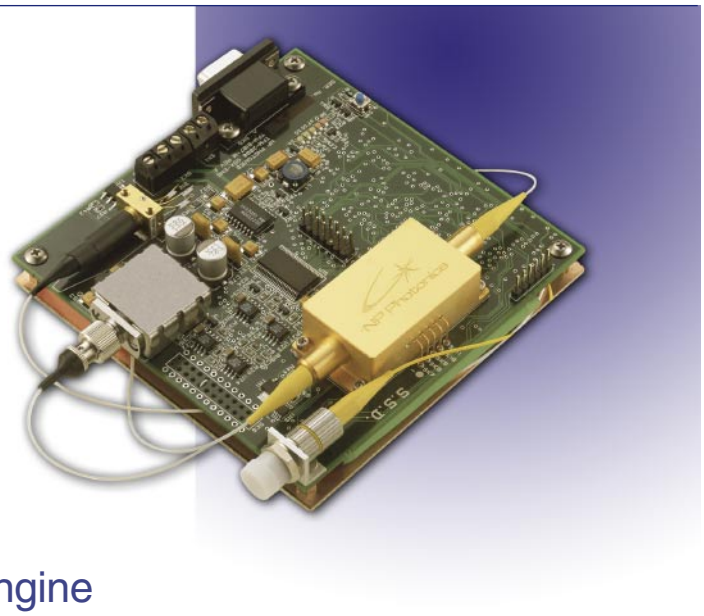
NP Photonics



OSA-ENG TFM2000
Optical Spectrum Analyzer Engine

PRODUCT DATA SHEET

NP Photonics' OSA Engine is a high performance, ultra compact instrument subsystem

The NP Photonics OSA Engine is designed for handheld, mobile and benchtop equipment. It provides high accuracy readings of power and wavelength data for the C & L bands. Based on the NP Photonics C-MEMS Fabry Perot filter, the OSA includes an ultra high sensitivity power detector and onboard wavelength calibration.

The small size and low power consumption of the NP Photonics OSA Engine are key features for portable instrumentation. The powerful command language provides for simple integration into special purpose automated manufacturing equipment and fiber sensor interrogators.

FEATURES

- *High finesse >2000 for superior channel selectivity*
- *Lower finesse available*
- *Wide tuning range (up to 110 nm) C&L bands*
- *Ultra compact size for portable applications*
- *Standard interfaces including USB,RS232, DPRAM or PCI*
- *DSP controlled*
- *Sophisticated software applications available*
- *Wavelength calibration*
- *Automatic optimization*
- *Battery handheld unit available*

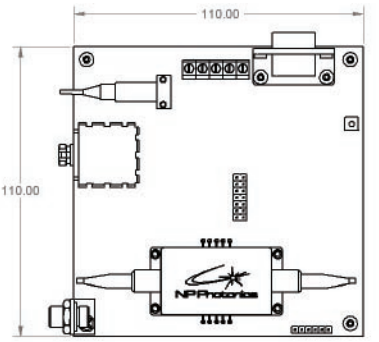
APPLICATIONS

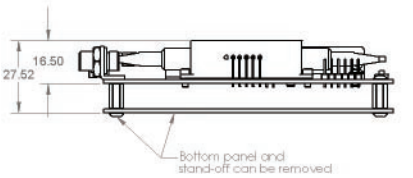
- *Sensing*
- *Handheld instruments*
- *Automated manufacturing*
- *Optical performance monitoring*

PRELIMINARY PRODUCT SPECIFICATIONS

Parameter	Value	Note
Wavelength Range	C or C&L Band	
Data Points	65536	
Resolution Bandwidth	20pm (FWHM) C Band	50pm (FWHM) for C&L band, wider bandwidth avail.
Min. Wavelength Resolution	1 pm (C Band)	2 pm (C&L Band)
Absolute Power Accuracy	± 0.5dB	
Relative Power Accuracy	± 0.2dB	
Scan Time	0.5 sec. (min)	
Power Range	-60 dBm to +10dBm	
Optical Input	Single Mode	
Dimensions	110x110x18.5 mm, excluding fiber	
Power Supply	+15V, -15V, +5V	PCI format or single supply available
Power Consumption	< 3W (typical)	
Wavelength Accuracy	±15 pm	Higher accuracy available
OSNR	30 dB	
Command Language	SCPI	
Temperature Range	0 to 50º C	0 to 65º C available

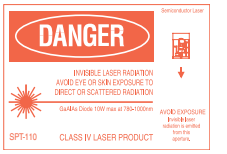
Mechanical Outline
All dimensions are in millimeters





NP Photonics

8-02 VERSION 1.0



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