



Enlightening Fiber Optic Networks



IntelliGuard™ C and L-Band Optical Channel Performance Monitors

Parameters	Unit	Specifications
Wavelength Range	nm	1528 - 1570 (C-Band) and 1570 - 1605 (L-Band)
Channel Number	-	160
Channel Spacing	GHz	50
Wavelength Accuracy	pm	± 15
Dynamic Range	dB	60
Channel Input Power Range	dBm	- 50 to -20
Channel Power Accuracy	dB	± 0.5
Channel Power Repeatability	dB	± 0.2
Polarization Dependence Loss	dB	< 0.3
Power Resolution	dB	0.1
Noise Floor	dBm	- 80
Peak to Valley	dB	25
OSNR	dB	30 ± 1.0
Response Time	ms	< 20
Spectral Engine	-	Proprietary stigmatic spectrograph
Detectors	-	2x512-element InGaAs detector arrays
Operating Temperature	°C	- 5 to 70
Storage Temperature	°C	- 40 to 85
Optical Connectors	-	Customer specify
Electronics Interface	-	RS232/USB/Parallel
Dimension (optics)	mm ³	108 × 68 × 15
Weight	g	< 500

Notes:

1. The channel power repeatability is measured over 24 hours.
2. The optical system does not require the temperature control.

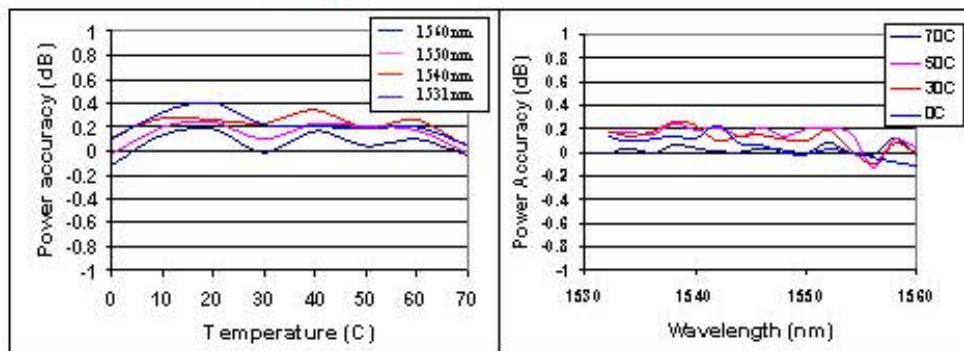
Applications:

- Real-time optical performance monitoring of DWDM networks
- Optical add/drop monitoring and diagnostics
- Remote gain equalization of DWDM systems based on optical power or OSNR
- Transmission laser wavelength locking
- Real-time system error warning and alarming
- EDFA gain balancing

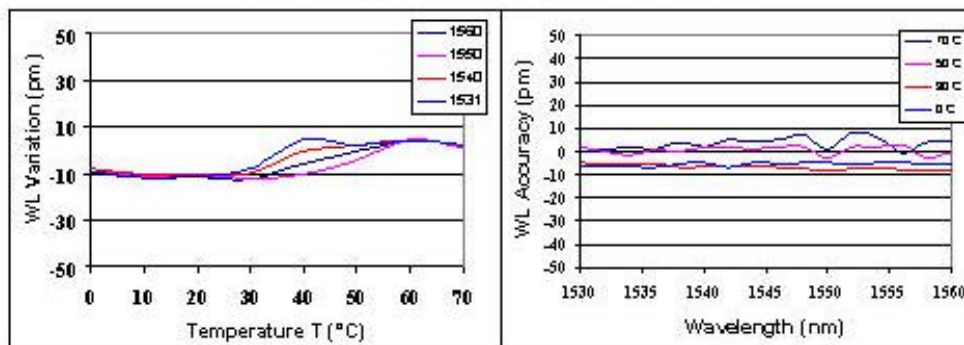
Features:

- High-resolution VPGTM spectral element
- High-efficient 512-element InGaAs array detectors
- Without moving parts
- High sensitivity
- High dynamic range
- Compact, robust, lightweight packages
- *Athermalized* design and packaging

Power Accuracy and Stability



Wavelength Accuracy and Stability



About BaySpec, Inc.

BaySpec, Inc., founded in 1999, designs, manufactures and markets fiber-optic components and modules for the optical networking industry. Utilizing our patented Volume Phase Grating (VPGTM) technologies, BaySpec has developed a new generation of optical networking products that provide cost and performance benefits for enterprise, metro- and long-haul applications. These products, available in volume, include the ChromaticaTM family of WDM Mux/Demux modules, IntelliGuardTM Optical Channel Performance Monitors, the IntelliGainTM and IntensiGainTM family of small form-factor EDFAs, and CoupleXTM fusion fiber products.

Visit our web site at www.bayspec.com for more information.