



Enlightening Fiber Optic Networks

IntelliGuard™ 100 GHz Gain Equalization Monitor



BaySpec's **IntelliGuard™** gain equalization monitor is an integrated spectrometer utilizing BaySpec's proprietary volume phase grating technology. Designed for applications to channel power and wavelength monitoring, wavelength identification for routing and provisioning, and dynamic gain equalizers.

Benefits:

- Compact size
- Athermal
- Lower overall system cost
- Software upgradeable
- High-speed response
- No moving parts
- Telcordia GR-1209/1221 standards

Specifications

Parameter	Unit	Data
Wavelength Range	nm	1528 – 1570 (C-band) or 1570 – 1605 (L-Band)
Channel Number	-	40
Channel Spacing	GHz	100 (ITU Grid)
Wavelength Accuracy	pm	± 15
Dynamic Range	dB	60
Channel Input Power Range	dBm	- 55 to -25
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
OSNR Accuracy	dB	± 1.5
Response Time	ms	< 20
Spectral Engine	-	Proprietary stigmatic spectrograph
Detector	-	512-element InGaAs detector array
Operating Temperature	°C	- 5 to 70
Storage Temperature	°C	- 40 to 85
Optical Connectors	-	Customer specify
Electronics Interface	-	Customer specify
Dimension (Optics)	mm	60 × 68 × 15
Dimension (Total)	mm	68 × 96 × 18.5
Weight	g	< 200

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