

# DGE

## DYNAMIC GAIN EQUALIZER

### MODULE

#### HIGH PERFORMANCE FOR THE MOST DEMANDING NETWORK REQUIREMENTS

Uses electronically programmable diffractive MEMS technology to attenuate seamlessly across C and L bands.

#### VOLTAGE CONTROLLED FAST DYNAMIC GAIN EQUALIZER

PARAMETER	SPECIFICATION
Wavelength range	C, L or extended band
Wavelength step response	15 dB in 4 nm
Attenuation range	> 15 dB
Insertion loss	< 5.7 dB end of life
Polarization dependent loss <sup>1</sup>	< 0.3 dB
Polarization mode dispersion	0.5 ps
Chromatic dispersion	± 3.0 ps/nm
Return loss	50 dB
Residual ripple	0.2 dB
Response speed	100 µs
Maximum optical power	500 mW
Package size (L x W x H)	220 x 110 x 19 mm
Interface	Dual port RAM or RS232
Operating temperature	0° to 70°C
Storage temperature	-40° to 85°C
Power consumption	< 10 W

1. From 0 to 10 dB attenuation

#### KEY FEATURES

- Slim package
- Low PDL
- Ease of control
- Industry standard interface
- Powerful, customizable commands

#### APPLICATIONS

- Flatten EDFA gain profiles
- Control gain shape changes caused by add/drops
- Power control in dynamic EDFAs
- Power equalization in long haul transmission

*Dynamic MEMS Components  
and Modules for Optical Networks*

