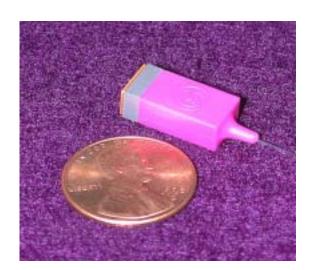
MEMS Variable Optical Attenuator

MegaSense's complete MEMS-based VOA product line offers exceptional performance at an unprecedented low cost. These products offer low insertion loss, high resolution and rapid response speed across a broad attenuation range. MegaSense's VOAs are capable of satisfying a variety of unique customer requirements and specifications in order to provide a time-to-market advantage, including multi-channel array configurations. Given the substantial cost advantages of MegaSense's VOAs, they are particularly suited for the emerging wavelength dependent applications.



Performance

- low insertion loss
- low PDL
- low WDL (patent pending)
- low back reflection
- fast response time
- high thermal stability
- high optical power handling
- extremely small packaged size (patent pending)

Premium Options

- individual calibration data
- maximum attenuation at power off
- preset level of attenuation at power off
- superior linearity option (patent pending)
- low driving voltage (0-5V)
- multi-channel array configurations
- open or closed loop module
- · hybrid packaging with tap and photo diode
- analog or digital interface

Applications

- attenuation and equalization
- erbium doped fiber amplifiers
- optical add/drop
- optical cross-connects
- pre-emphasis
- wavelength division multiplexers
- test and measurement/instrumentation
- array configurable for multi-channel applications

Optical Parameters

operating wavelength	C band (C + L band available)
attenuation range	0-30 dB minimum
insertion loss	0.8 dB maximum
return loss	55 dB minimum
polarization dependent loss	0.2 dB maximum ⁽¹⁾
wavelength dependent loss	0.4 dB ⁽²⁾
optical power	300 mW maximum
response speed	2 ms typical

Electrical Parameters

DC drive voltage range	15 V ⁽³⁾
absolute maximum voltage	22 V
power consumption	0.1 mW maximum (4)

Environmental Parameters

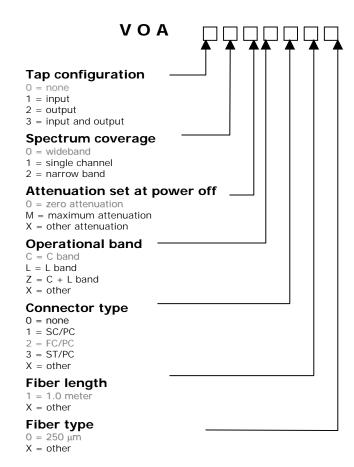
operating temperature	-5 to 70°C	
storage temperature	-40 to 85°C	••••

Dimensions

footprint on PCB	7.6 x 15.5 mm
height to PCB	6.4 mm

- (1). 0.2dB PDL is measured across 0-20dB range
- (2). 0.4dB WDL is measured across 0-20dB range
- (3). precise voltage range device dependent
- (4). electrostatically actuated; nearly zero power consumption at stable setting

Ordering Information



Contact Information:

MegaSense

1215 Bordeaux Drive Sunnyvale, CA 94089-1203

Main: 408.400.9700 Fax: 408.400.9701

Email: sales@megasense.com

Free VOA samples are available for qualified customers