

High Precision MEMS Variable Attenuator

(patent pending)

Product Description

The High Precision Variable Fiber Optical Attenuator provide high precision control of a steady output optical power or attenuation independent of environmental variations or input laser instability. The module integrates input-tap and output-tap with VOAs in a compact format. The module eliminates laser power variations, such as PDL, WDL, TDL, etc. and is particularly suitable for continuous optical power regulation and transient optical suppression, as well as analog signal modulation applications.

The module is a platform ready for customization with control electronics option.

Features

- Highly Reliable
- Highly precise
- Low IL

Applications

 Optical Power Control Optical Power Regulation Optical Power Balance Instrumentation

· Large dynamic range

Performance Specifications

High Precision VOA Module	Min	Туре	Max	Unit		
Central Wavelength	780	780 ~1100, 1250~1650				
Insertion Loss [1]		1.5		dB		
Attenuation Range		30	70 [2]	dB		
Control Voltage		3.5	5	V		
Attenuation Setting Resolution		± 0.01		dB		
Attenuation Accuracy		± 0.01		dB		
Return Loss [3]	55			dB		
Maximum Input Power			20	dBm		
Minimum Detectable Power	-30			dBm		
VOA Response Time	0.1		5	ms		
Electrically Power Consumption/Channel			0.2	W		
Resolution						
Operating Temperature		⁰ C				
Storage Temperature		⁰ C				
Fiber Type	Corning SMF-28 or MMF or PMF					
Electric PIN connection		TBD				
Package Dimension	_	_				
[1] Measured without connector [2] Special order [3] Noted as SM fiber						



VOA-ILPM Module

Mechanical Footprint Dimensions (Units: inch)

TBD

Electric PIN Assignment

TBD

Optical In/Out Assignment

TBD

Ordering Information

VOA- TAPM							
	ILPM	Channel number	Wavelength	Off State	Package Type	Fiber Type	Connector Type
	Input ILPM only = 10 Output ILPM only = 01 Input & Output ILPM = 11	Ex. 4 channels = 04	1310nm=3 1410nm=4 1550nm=5 850nm =8 1060nm = 1 1260-1620= 2 Special=0	Normally open = 1 Normally closed = 2	Standard = 1 Special = 0	SMF-28 = 1 MMF-50/125 = 5 MMF-62.2/125 = 6 PMF-1550 = 7 Special = 0	FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0