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Multi-Channel VOA Array with Integrated Monitor

(patent pending)

Product Description

The Multi-channel Variable Fiber Optical Attenuator with Integrated Power Monitor Module (VOA-TAPM) is designed to provide the precision control of a steady output optical power or attenuation independent of environmental variations or input laser instability. The input-tap and output-tap are integrated with VOAs in a compact module. 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
- Large dynamic range

Performance Specifications

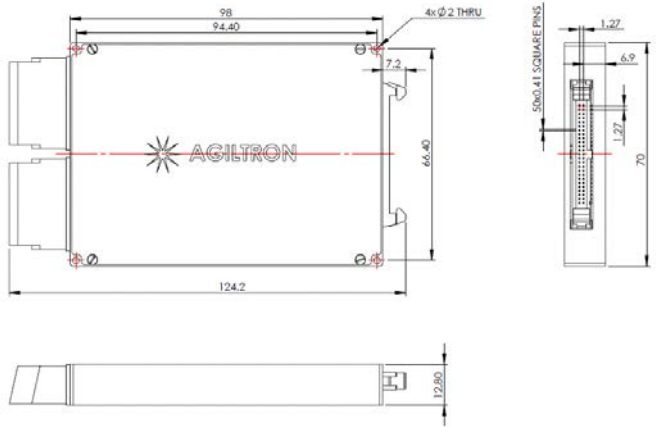
VOA-ILPM Module	Min	Typical	Max	Unit
Central Wavelength	780~1100, 1260~1360, 1510~1620			nm
Channel Number	4	8		
Insertion Loss ^[1]		1.5		dB
Attenuation Range		30		dB
Control Voltage		3.5	5	V
ILPM (Input/Output) Accuracy		± 0.1		dB
Return Loss ^[2]	55			dB
Maximum Input Power			20	dBm
Minimum Detectable Power	-30			dBm
VOA Response Time	0.1		5	ms
Electrically Power Consumption/Channel			0.2	W
Resolution		Continuous		
Operating Temperature		-20 ~ 70		°C
Storage Temperature		-40 ~ 85		°C
Fiber Type	Corning SMF-28 or MMF or PMF			
[1] Measured without connector				
[2] Noted as SM fiber				

Applications

- Optical Power Control
- Optical Power Regulation
- Optical Power Balance
- Instrumentation

VOA-ILPM Module

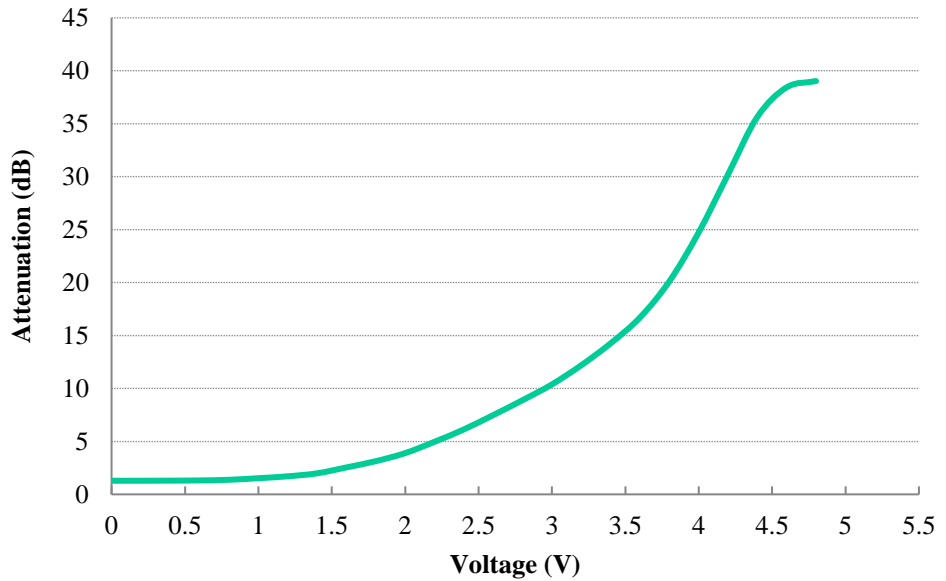
Mechanical Footprint Dimensions (Units: inch)



Note: Typical size for 4 Channel module only.

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

VOA Performance



VOA-ILPM Module

Electric PIN Assignment

The connector J9 supports a 50 pin ribbon cable with 50 mil centers. Samtec EHF-125-01-L-D-RA-K or equivalent connector should be used.

The pin definition will be provided in the application note

Ordering Information

VOA-TAPM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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