Fiber Optical Variable Back Reflectors

(patent pending)

Product Description

The Variable Fiber Optical Back Reflectors provide high precision control of a steady back reflection power independent of environmental variations or input laser instability. The module integrates input-tap and output-tap with MEMS reflector in a compact format. The module eliminates laser power variations, such as PDL, WDL, TDL, etc.

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

Features

- Highly Reliable
- Highly precise
- Low IL
- Large dynamic range

Applications

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

Performance Specifications

Fiber Optical Variable Back Reflector	Min	Type	Max	Unit
Central Wavelength		780 ~1100, 1250~1650		nm
Insertion Loss [1]		1.5		dB
Attenuation Range		30	70[2]	dB
Control Voltage		3.5	5	V
Reflection Setting Resolution		± 0.01		dB
Reflection Power Accuracy		± 0.01		dB
Return Loss [3]	55			dB
Maximum Input Power			20	dBm
Minimum Detectable Power	-30			dBm
Response Time	0.1		5	ms
Electrically Power Consumption/Channel			0.2	W
Operating Temperature		-5 ~ 70		^{0}C
Storage Temperature		-40 ~ 85		^{0}C
Fiber Type		Corning SMF-28 or MMF or PMF		
Electric PIN connection		TBD		
Package Dimension		TBD		

[1] Measured without connector
[2] Special order
[3] Noted as SM fiber

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Revision: 04-2018

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

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