

10 Channel MEMS VOA Array with Output Tap Photodiode

(patents pending)

Product Description

- 10 Channel MEMS VOA with Tap Photodiode at output
- Individual channel control via a RS 232 protocol
- Digital voltage readout of individual tap photodiode with gain
- EEPROM to store photodiode responsivity data
- Low Power consumption at 30mW per channel
- Low insertion loss and low polarization dependant loss
- No moving parts with fast actuation, transparent or opaque



Performance Specifications

10 Channel MEMS VOA	Specification	Unit
Operating Wavelength (λ_o)	1260 ~ 1620	nm
Maximum Insertion Loss (Over λ_o , 23°C *)	≤ 0.7	dB
Variable Attenuation Dynamic Range	0 ~ 20	dB
Polarization Dependant Loss (0~20dB)	≤ 0.25	dB
Polarization Mode Dispersion	≤ 0.05	ps
Optical Cross Talk	≥ 65	dB
Attenuation Resolution	0.05	dB
Response Time (0~20dB)	≤ 5	ms
Return Loss (Minimum, Input/Output)	≥ 50	dB
Power Dissipation	30	mW/Ch
Maximum Power Consumption **	≤ 1	W
Electric Input (DC)	12	V
Operating Temperature	-5 ~ +75	°C
Storage Temperature	-40 ~ +85	°C
Optical Power Handling	≤ 300	mW
Relative Humidity Range	0 ~ 85	%
Package Dimensions (see next page)	L115 x W80 x H19	Mm
* Without connector ** Including control circuit		

Features

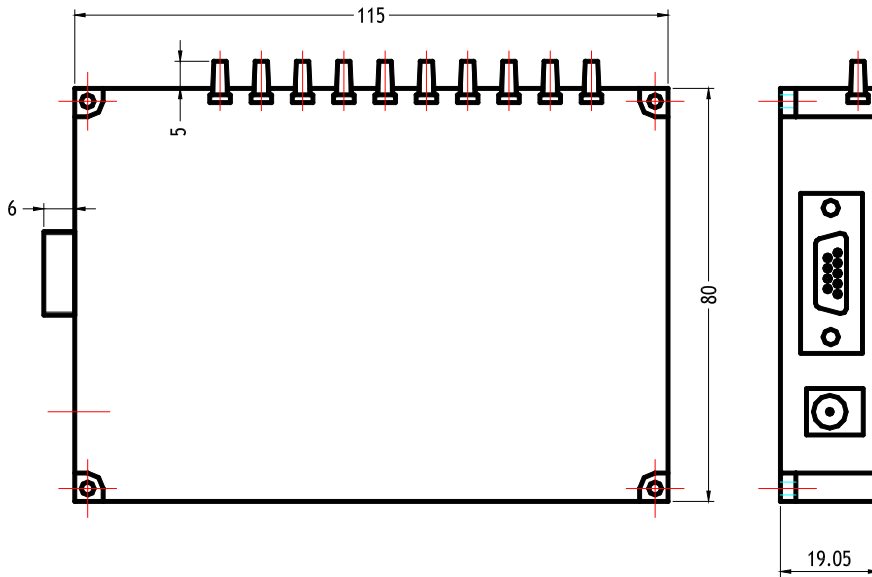
- Low Insertion Loss
- High Reliability
- Low Cost
- Low power consumption

Applications

- Dynamic gain equalization
- Variable MUX/DeMUX
- Instrumentation

10 Channel MEMS VOA Array with Output Tap Photodiode

Mechanical Dimensions



Ordering Information

VOAA-	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type	Wavelength	Grade	Package	Fiber Type	Fiber Length	Connector			
10 Channels=10	C Band=C Special=0	Standard=1 Special=0	Standard=1 Special=0	SMF-28=1 Special=0	Bare Fiber=1 900um Loose Tube=3 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0		