

8 Channel MEMS VOA Array

Product Description

The MM Series VOA is based on a micro-electro-mechanical mechanism featuring compact design, simple construction, easy direct drive, and excellent optical performance. The MM series VOA is compliant with the Telcordia 1209 and 1221 reliability standards. The VOA is driven by directly applying an electrical voltage.



Features

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

Performance Specifications

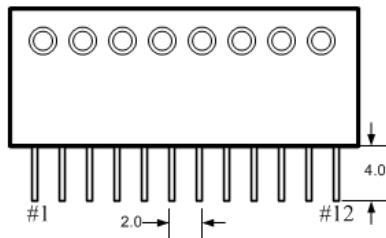
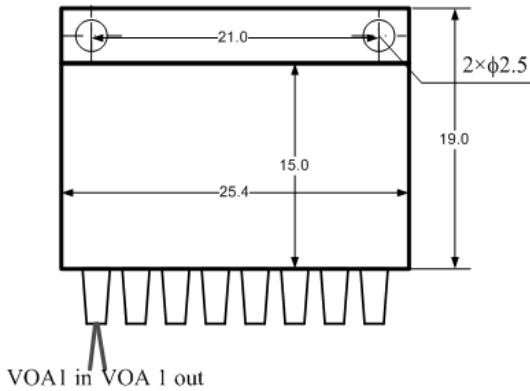
8 Channel MEMS VOA	Specification	Unit
Operating Wavelength	1310±50; 1550±50	nm
Maximum Insertion Loss*	≤ 0.8	dB
Variable Attenuation Dynamic Range	> 30	dB
Polarization Dependant Loss (0-20dB)	0.2typ.; 0.5max.	dB
Polarization Mode Dispersion	≤ 0.05	ps
Optical Cross Talk	≥ 65	dB
Attenuation Resolution	Continuous	dB
Response Time (0-20dB)	≤ 5	ms
Return Loss (Minimum, Input/Output)	45min.	dB
Power Dissipation	40typ.	mW/Ch
Maximum Power Consumption **	≤ 1	W
Electric Input (DC)	5	V
Operating Temperature	-5 ~ +75	°C
Storage Temperature	-40 ~ +85	°C
Optical Power Handling***	≤ 250	mW/ch
Relative Humidity Range	0 ~ 85	%
Package Dimensions (see next page)	L25.4 x W15 x H10	mm
*Without connector		
** Including control circuit		
***Total power<1W, otherwise need heat sink.		

Applications

- Dynamic gain equalization
- Variable MUX/DeMUX
- Instrumentation

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Mechanical Dimensions



Pin 1	VOA 1 (0-5V)	Pin 7	VOA 5 (0-5V)
Pin 2	VOA 2 (0-5V)	Pin 8	VOA 6 (0-5V)
Pin 3	VOA 3 (0-5V)	Pin 9	VOA 7 (0-5V)
Pin 4	VOA 4 (0-5V)	Pin 10	VOA 8 (0-5V)
Pin 5	GND	Pin 11	GND
Pin 6	GND	Pin 12	5V power supply

All Pin diameter = .45mm

Ordering Information

VOAA-	Type	Wavelength	Off State	Package	Fiber	Fiber Length	Connector	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Standard 8 channel voltage control=08	1310=3 1550 = 5 1260-1620= 8 Special = 0	Transparent=1 Opaque = 2	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