# **Ultra-Mini MEMS Variable Attenuation Array**

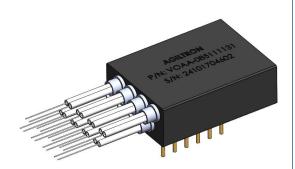


(8 channels, 0-5V, 780-2640nm, 40dB attenuation, SM, MM, PM)



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This series of MEMS Variable Attenuator Arrays boasts an ultra-miniature design, offering a 0-5V drive and low power consumption. It delivers excellent repeatability and outstanding optical performance. These arrays are fully compliant with the Telcordia 1209 and 1221 reliability standards, ensuring robust and reliable operation. The design incorporates pins for mounting, providing an efficient and secure installation method.

#### **Features**

- High Stability
- Low Cost
- High Repeatability
- Low Power Consumption
- Low Drift
- Compact Size

### **Applications**

- Laboratory Uses
- Testing
- Instrumentation

#### **Specifications**

Para	meter	Min	Typical	Max	Unit
Operation Wavelengt	h	85	0-1310, 1260~1620		nm
Insertion Loss (Withou	ion Loss (Without Connector) 0.6 1.0 [3]		1.0 [3]	dB	
Attenuation Dynamic	Dynamic Range 40 55		dB		
Polarization Depende	nt Loss (SM, 0~15dB)	: Loss (SM, 0~15dB) 0.1 0.2		dB	
Repeatability (0-60 °C	)		0.3 0.5		dB
Extinction Ratio (PM)		18	22		dB
Datum Lasa	SM, PM	50			dB
Return Loss	Multimode	35			
Wavelength Dependent Loss [1]			0.45	0.8	dB
Response Time (0~20	dB)		1	. 3	
Optical Power Handlir	ng (CW)		300 400		mW
Polarization Mode Dis	persion		≤ 0.05		ps
Optical Crosstalk			≥ 65		dB
Attenuation Resolutio	n	Continuous			
Max. Power Consumption			mW		
Electric Power Input		0~5			VDC
Electrical Control Signal [4]		-20		+75	°C
Storage Temperature	Storage Temperature			+85	°C
Relative Humidity Rar	ge	0~85		%	

#### Notes:

- [1]. Within 40nm band, 0~20dB.
- [2]. At the maximum attenuation 50dB for all 8 channels.

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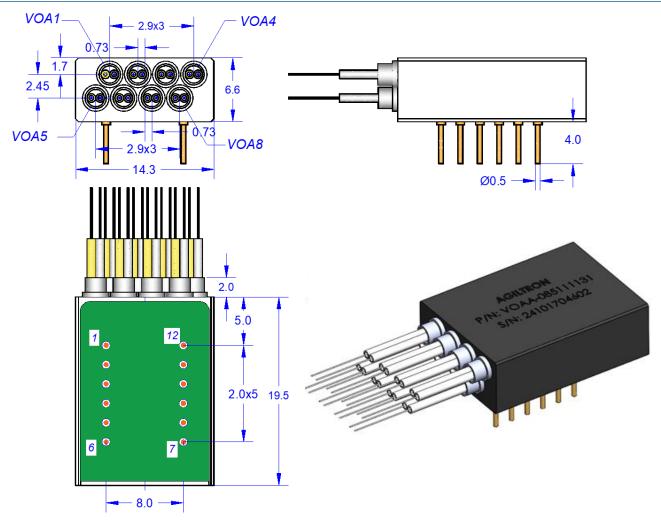


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#### **Mechanical Dimensions (mm)**



<sup>\*</sup>Product dimensions may change without notice. This is sometimes required for non-standard specifications.

## **Electrical/Computer Connection**

Pin#	Control VOA #	Control Voltage
1	VOA 1	
2	VOA 2	
3	VOA 3	0 ~ 5 VDC
4	VOA 4	0~5 VDC
5	VOA 5	
6	VOA 6	

Pin#	Control VOA #	Control Voltage	
7	VOA 7	0 ~ 5 VDC	
8	VOA 8	0 ~ 5 VDC	
9	- 0V		
10			
11	N/A		
12	IN/	^	







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# Ultra-Mini MEMS Variable Attenuation Array (8 charmola & 51/ 700 0016



(8 channels, 0-5V, 780-2640nm, 40dB attenuation, SM, MM, PM)



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### **Ordering Information**

				1				
Prefix	Туре	Wavelength	Off Stage	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
VOMA-	4-ch = 04 5-ch = 05 6-ch = 06 7-ch = 07 8-ch = 08	1060 = 1 C + L = 2 1310 = 3 1550 = 5 780 = 7 850 = 8 850/1310 = A 1260~1620 = B Special = 0	Transparent = 1 Opaque = 2 Special = 0	Special = 0	SMF-28 = 1 HI1060 = 2 HI780 = 3 MM 50/125 = 5 MM 62.5/125 = 6 PM1550 = B PM1310 = D PM980 = E PM850 = F Special = 0	Bare fiber = 1 900 um 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/PC = 7 Duplex LC/PC = 8 MTP = 9 LC/APC = A LC/UPC = U Special = 0

#### Notes:



<sup>\*</sup>Only bare fiber is available due to the compact size. Adding a connector to bare fiber increases the risk of damage and costs.