

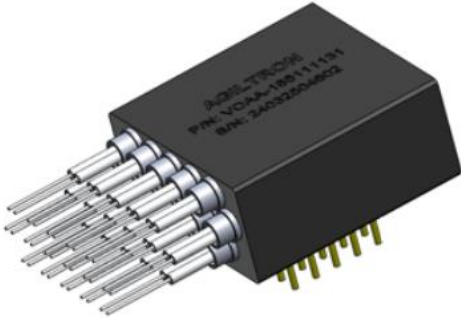
Ultra-Mini MEMS Variable Attenuation Array

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



DATASHEET

BUY NOW



Features

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

Applications

- Laboratory Uses
- Testing
- Instrumentation

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.

Specifications

Parameter	Min	Typical	Max	Unit
Operation Wavelength	850-1310, 1260~1620			nm
Insertion Loss (Without Connector)		0.6	1.0 ^[3]	dB
Attenuation Dynamic Range	40		55	dB
Polarization Dependent Loss (SM, 0~15dB)		0.1	0.2	dB
Repeatability (0-60 °C)		0.3	0.5	dB
Extinction Ratio (PM)	18	22		dB
Return Loss	SM, PM	50		dB
	Multimode	35		
Wavelength Dependent Loss ^[1]		0.45	0.8	dB
Response Time (0~20 dB)		1	3	ms
Optical Power Handling (CW)		300	400	mW
Polarization Mode Dispersion		≤ 0.05		ps
Optical Crosstalk		≥ 65		dB
Attenuation Resolution		Continuous		
Max. Power Consumption		≤ 10 ^[2]		mW
Electric Power Input		0 ~ 5		VDC
Electrical Control Signal ^[4]	-20		+75	°C
Storage Temperature	-40		+85	°C
Relative Humidity Range		0 ~ 85		%

Notes:

[1]. Within 40nm band, 0~20dB.

[2]. At the maximum attenuation 50dB for all 8 channels.

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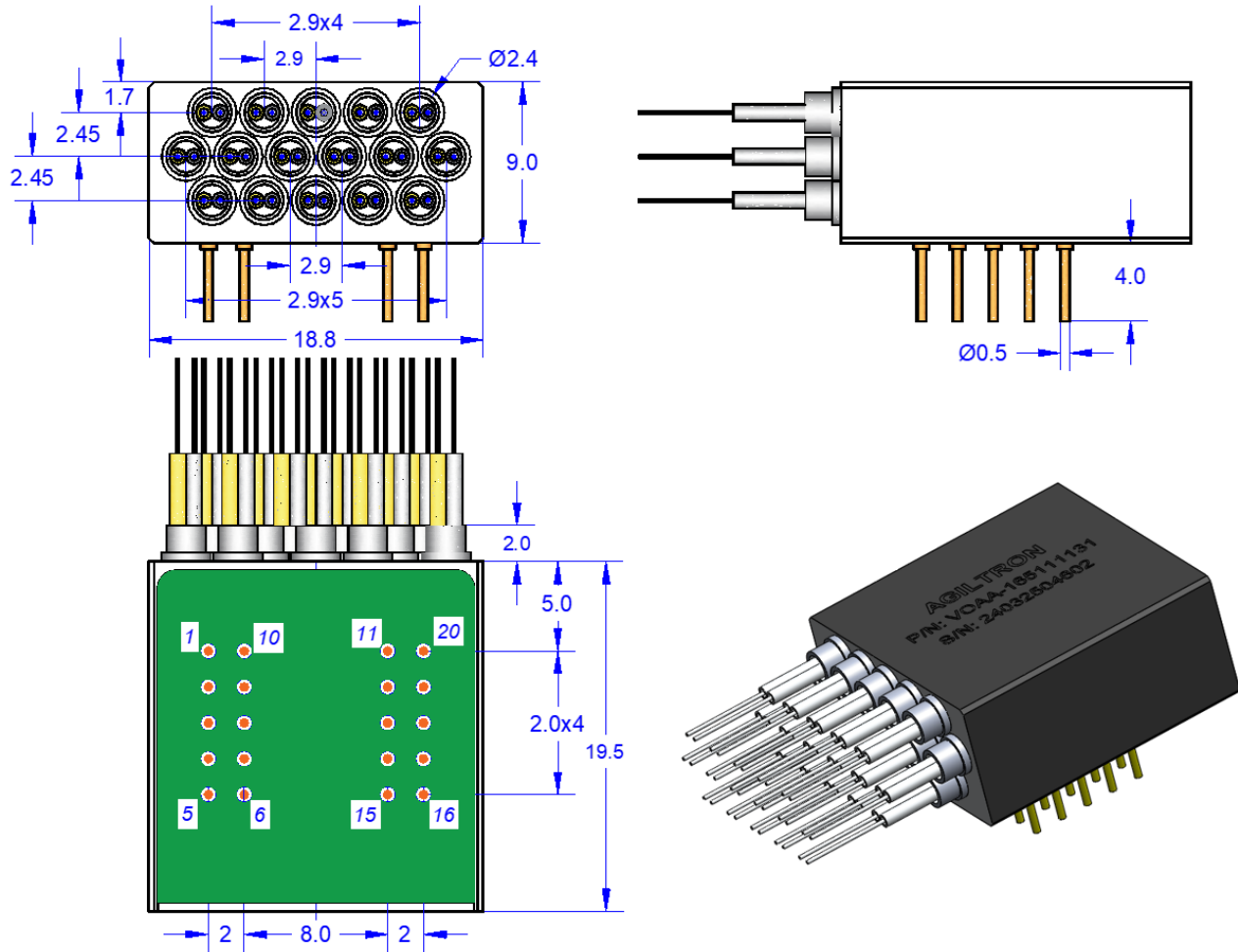
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Mechanical Dimensions (mm)



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

Electrical/Computer Connection

Pin #	Electronic Drive
1	0 ~ 5 VDC
2	
3	
4	
5	
6	
7	
8	
9	
10	

Pin #	Electronic Drive
11	0 ~ 5 VDC
12	
13	
14	
15	
16	
17	0V
18	N/A
19	N/A
20	N/A

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Ordering Information

Prefix	Type	Wavelength	Temperature Range	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOMM-	9-ch = 09 10-ch = 10 11-ch = 11 12-ch = 12 13-ch = 13 14-ch = 14 15-ch = 15 16-ch = 16	850/1310 = A 1260~1620 = B Special = 0	-5~70°C = 1 Special = 0	Special = 0	SMF-28 = 1 MM 50/125 = 5 MM 62.5/125 = 6 PM1550/250 = B PM1300/250 = D PM980/250 = E PM850/250 = F Special = 0	Bare fiber = 1 900um 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