

9~16 Channel etMEMS™ VOA Array

(Protected by U.S. patent 8,666,218 and other patents pending)

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

Applications

- Laboratory Uses
- Testing
- Instrumentation

Features

- High Stability
- Low Cost
- Ease to Use

Specifications

Parameter	Min	Typical	Max	Unit
Operating Wavelength	850~1310, 1260~1620			nm
Insertion Loss (without connector)		0.6	1.0	dB
Attenuation Dynamic Range	40	55		dB
Polarization Dependent Loss (0~20 dB, SM)		≤ 0.1		dB
Wavelength Dependent Loss (40 nm band, 0~20dB)		0.45	0.8	dB
Polarization Mode Dispersion		≤ 0.05		ps
Crosstalk		≥ 65		dB
Attenuation Resolution		Continuous		dB
Response Time (0~20dB)		5	10	ms
Return Loss	SM, PM	> 50		dB
	MM	> 35		dB
Max. Power Consumption		≤ 170		mW/Ch
Electric Power Supply		5		VDC
Electrical Control Signal	0		5	VDC
Operating Temperature	-5		+75	°C
Storage Temperature	-40		+85	°C
Optical Power Handling (CW)		300	500	mW/ch
Relative Humidity Range	0		+85	%

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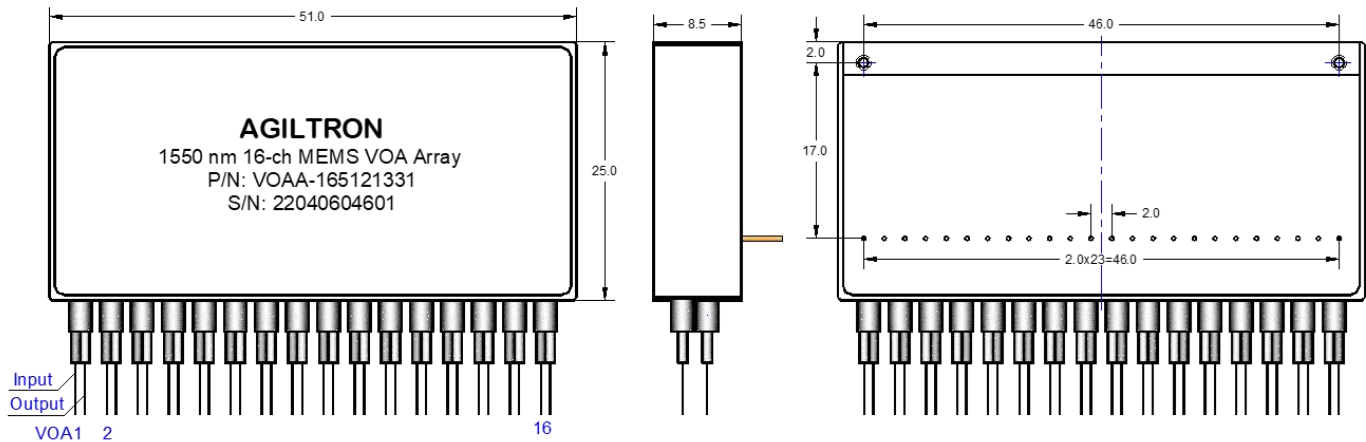
Rev 12/04/23

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Dimensions (mm)



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

Electrical/Computer Connection

Pin No.	Electronic Drive	VOA No.
1	0~5V	1
2	0~5V	2
3	0~5V	3
4	0~5V	4
5	GND	
6	GND	

Pin No.	Electronic Drive	VOA No.
7	0~5V	5
8	0~5V	6
9	0~5V	7
10	0~5V	8
11	GND	
12	GND	

Pin No.	Electronic Drive	VOA No.
13	0~5V	9
14	0~5V	10
15	0~5V	11
16	0~5V	12
17	GND	
18	GND	

Pin No.	Electronic Drive	VOA No.
19	0~5V	13
20	0~5V	14
21	0~5V	15
22	0~5V	16
23	GND	
24	5V Power Supply	

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Ordering Information

Prefix	Type	Wavelength	Off State	Package	Fiber	Fiber Cover	Fiber Length	Connector
VOAA-	9-ch = 09 10-ch = 10 11-ch = 11 12-ch = 12 13-ch = 13 14-ch = 14 15-ch = 15 16-ch = 16	1260~1620 = B 850/1310 = A 1550 = 5 1310 = 3 Special = 0	Transparent = 1 Opaque = 2	Special = 0	SMF-28 = 1 MM 50/125 = 5 MM 62.5/125 = 6 PM1550 = B PM1300 = 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/UPC = U Special = 0

NOTE:

“transparent” means no attenuation without applying a controlling voltage, the “opaque” means the highest attenuation without applying a controlling voltage.

Typical Insertion Loss vs Wavelength (1240-1630nm)

1x2 MEMS Switch

