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Find the *VIAVI Solutions / JDSU VA6B* at our website: *Click HERE*

datasheet

Manual Variable Precision Attenuators

VA5 and VA6 Series

JDS Uniphase Manual Variable Precision Attenuators provide precise, repeatable, and manual control of light levels for field system testing as well as for test and development in laboratory applications. Both series use micrometer control for high-resolution attenuation of 50-70 dB with calibration wavelengths of 830, 1300, or 1550 nm. Using our ultra-linear attenuator prism and highly reliable microlense technology, they provide highly accurate, continuously variable attenuation with low insertion loss and an excellent return loss of > 60 dB. Each model is available in both single-mode and multimode versions. Single-mode models are available with our analog option and feature > 60 dB return loss and low spectral ripple for CATV AM systems.

These attenuators are battery-powered for portability and convenient use in the field when high precision is required.

The VA5B attenuator features 3 mm cable pigtails that are supplied bare or with the customer's choice of connector type. The VA6B attenuator features a panel-mounted PC or APC universal connector adapter (UCA), which supports FC/PC, SC/PC, and ST/PC or FC/APC and SC/APC connector types.



Key Features & Benefits

Highly precise attenuation

0.01 dB resolution

Low insertion loss

Return loss > 60 dB

Long battery life

Portable for field use

Universal connector adapter

Applications

Precise optical power control

Receiver testing

Field system testing

Power meter linearity checks

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Technical Specifications

PARAMETER		830 nm	1300 nm	1550 nm
Operating wavelength range[1]	single-mode (SM)	750-1000 nm	1200-1700 nm	1200-1700 nm
	multimode (MM)	750-1700 nm	750-1700 nm	1200-1700 nm
Attenuation range[2]	SM	40 dB	60 dB	60 dB
	MM	60 dB	50 dB	60 dB
Attenuation	resolution[2]	0.01 dB		
	repeatability	0.02 dB		
	accuracy[2, 3, 4]	± 0.1 dB or ± 0.02 dB/dB, whichever is greater		
Insertion loss[2, 5, 6]		≤ 1.5 dB		
Return loss[3]	SM	> 45 dB		
	SM, analog	> 60 dB		
	MM, 50/125 µm	> 35 dB		
	MM, other	> 30 dB		
Maximum optical input power		200 mW		
Recalibration period (recommended)		2 years		
Polarization dependent loss[3]		≤ 0.08 dB		
Connectors	VA5B	pigtail mounted		
	VA6B	bulkhead mounted universal PC or APC		
Operating temperature		0 to 50 °C		
Storage temperature		- 40 to 60 °C		
Humidity		maximum 95 % up to 40 °C, 60 % above 40 °C		

1. Recommended wavelength range for acceptable insertion loss and attenuation slope.
2. At calibration wavelength.
3. Except below 3 dB attenuation, measured with a laser source.
4. At constant temperature.
5. Not including connectors, if installed.
6. Including bulkhead mounted UCAs, the VA6B unit has an insertion loss of ≤ 2.5 dB.

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Ordering Information

Sample Order: VA5B71+1KFP0

VA □ B □ □ +1 □ □ □ □

code	port type
5	Pigtails
6	UCA bulkheads

code	fiber type (µm)
7	9/125
1	50/125
2	62.5/125

code	calibrated wavelengths (nm)
9	830
3	1300
1	1550

code	return loss
K	Low
A	Analog (> 60 dB SM)

code	connector type
FP	FC/HPC
FA	FC/APC
SC	SC/HPC
SU	SC/APC
SP	ST/HPC
NC	No connector

code	carry case
0	Without
1	With

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Indicate your requirements by selecting one option from each configuration table. Print the corresponding codes in the available boxes to form your part number.

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