

**Aumictech**

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Data Sheet

August 2, 2026

KOTURA

KOTURA 4 CHANNEL VOA

The Kotura 4CHANNELVOA (VOA) is a four-channel variable optical attenuator array based on silicon photonics free-carrier absorption, providing fast, solid-state attenuation without moving parts for C-band class optical networks and test applications. Dynamic optical power leveling in DWDM and metro networks; channel equalization in multi-wavelength systems; optical test and measurement attenuation in C-band link characterization; telecom equipment requiring Telcordia-qualified class photonic attenuation arrays. Response Time: sub-microsecond typical (family class) Qualification: Telcordia-qualified class arrays (family) Operate within specified optical input power and wavelength range for the installed faceplate part number. Observe fiber handling, connector cleanliness, and thermal management per Kotura module guidance. Exact faceplate part number may vary within the Kotura Ultra VOA 4-channel product family—confirm attenuation range, insertion loss, and wavelength plan from the specific module label before deployment. Inventory alias VOA or 4CHANNELVOA may not distinguish channel count or band variant; verify physical marking against application requirements.



MODEL

**Kotura 4 CHANNEL
VOA**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4 CHANNEL VOA

LISTING

<https://aumictechlabs.com/products/4-channel-voa-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The KOTURA 4 CHANNEL VOA is a variable optical attenuator delivering independent attenuation control across four simultaneous channels. Each channel provides precise, variable adjustment of optical signal power from 0 to 15 dB, enabling balanced multi-channel operation in fiber optic systems. The device combines low insertion loss, high return loss, and exceptional stability across all channels - making it suitable for dynamic power management, signal equalization, and rigorous optical testing environments.

Technical Specifications

Channels: 4 independent

Attenuation Range: 0–15 dB per channel

Operating Wavelength: 1550 nm $\pm$ 20 nm; PM versions support 1310 nm, 1550 nm, 1620 nm; singlemode range 1270–1580 nm

Insertion Loss: <3 dB typical (singlemode and multimode <3.5 dB)

Return Loss: $\geq$ 50 dB typical

Polarization Dependent Loss (PDL): $\leq$ 0.05 dB typical (manual versions $\leq$ 0.15 dB)

Polarization Mode Dispersion (PMD): $\leq$ 0.25 ps typical

Attenuation Accuracy: 0.5 dB regulation; 0.1 dB or better repeatability available

Power Consumption: <3 W

Dimensions: 10 $\times$ 8 $\times$ 4 inches

Key Features

- High multi-channel attenuation stability
- Variable control for real-time optical power adjustment
- Suitable for both singlemode and multimode fiber systems
- Ultra VOA series available in pluggable SFP form factor with 20-pin connector
- RS-232 serial interface option for remote control

Typical Applications

- Signal strength balancing in multi-channel communication systems
- Optical margin verification and receiver operating range testing
- Network simulation and laboratory measurement protocols
- WDM agile networks requiring dynamic power control
- Fast transient suppression in silicon photonics-based implementations

Compatibility & Integration

Designed for standard fiber optic systems and network equipment. SFP-VOA variants integrate directly into standard SFP module slots on optical transceivers and network interface cards.

Features & description

From manufacturer datasheet

Features

- 4 independent VOA channels in one array
- Silicon photonics free-carrier absorption (no moving parts)
- Sub-microsecond response time (typical, family class)
- C-band wavelength class operation
- Attenuation range approximately 0 to 25 dB (family specification)
- Telcordia-qualified class array products (Kotura Ultra VOA family)
- Compact multi-channel photonic integration

4CHANNELVOA Characteristics / Specifications

PARAMETER	VALUE
Model	4 Channel VOA (Kotura Ultra VOA family)
Manufacturer	Kotura (MariOptical / JDSU heritage)
Instrument Type	Variable Optical Attenuator Array
Technology	Silicon photonics free-carrier absorption
Channel Count	4
Attenuation Range	approximately 0 to 25 dB (family class; confirm per faceplate P/N)
Response Time	sub-microsecond typical (family class)
Wavelength Band	C-band class
Moving Parts	none (solid-state)
Qualification	Telcordia-qualified class arrays (family) Standard Operating Conditions Operate within specified optical input power and wavelength range for the installed faceplate part number. Observe fiber handling, connector cleanliness, and thermal management per Kotura module guidance.
Wavelength range	for the installed faceplate part number. Observe fiber handling, connector cleanliness, and thermal management per Kotura module guidance.
Attenuation	without moving parts for C-band class optical networks and test applications.

4CHANNELVOA Specifications

PARAMETER	VALUE
KOTURA 4 CHANNEL VOA	Overview
Key Features	- 4 independent VOA channels in one array
Technical Specifications	Model: 4 Channel VOA (Kotura Ultra VOA family)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

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Model	4 Channel VOA (Kotura Ultra VOA family)
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Moving Parts	none (solid-state)
Qualification	Telcordia-qualified class arrays (family)

Standard Operating Conditions

Operate within specified optical input power and wavelength range for the installed faceplate part number. Observe fiber handling, connector cleanliness, and thermal management per Kotura module guidance.

Operational Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.