

**Aumictech**

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Data Sheet

August 14, 2026

KALMUS

Kalmus 500FC

Kalmus 500FC Broadband RF Power Amplifier The Kalmus 500FC is a broadband RF power amplifier rated 50 W from 1 MHz to 500 MHz. Reseller/OEM product listings for the 500FC state approximately 47 dB power gain in this band for EMC and general RF drive applications. RF immunity and general broadband RF power amplification from 1 MHz to 500 MHz at the 50 W class. Amplifier Role: Broadband RF power amplifier The Kalmus 500FC is a broadband RF power amplifier rated 50 W from 1 MHz to 500 MHz. Reseller/OEM product listings for the 500FC state approximately 47 dB power gain in this band for EMC and general RF drive applications. RF immunity and general broadband RF power amplification from 1 MHz to 500 MHz at the 50 W class. Amplifier Role: Broadband RF power amplifier Class Of Operation Class: Linear broadband class (confirm on unit label)



MODEL

Kalmus 500FC

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

500FC

LISTING

<https://aumictechlabs.com/products/500fc-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kalmus 500FC is a benchtop RF power amplifier designed for general purpose laboratory applications, communications, and RF immunity testing. It delivers linear operation across a broad instantaneous bandwidth suitable for sweep applications, with low compression at rated power and integrated VSWR protection. Available in multiple power configurations from 2 Watt to 50 Watt, the unit operates with consistent performance across demanding test environments. CE certified for regulatory compliance, the 500FC supports both benchtop deployment and optional

19" rack mount integration for flexible laboratory and production setups. Technical Specifications Power Output: 2–6 W, 10 W, 20–25 W, and 25–50 W configurations Bandwidth: Broad, instantaneous bandwidth optimized for sweep applications Operation: Linear with low compression at rated power Protection: VSWR protection Certification: CE certified Form Factor: Benchtop unit with optional 19" rack mount Key Features Low-compression linear amplification maintains signal integrity across the operating range VSWR protection safeguards against load impedance mismatches Instantaneous bandwidth eliminates settling delays in frequency-agile test sequences Flexible power scaling supports applications from low-level characterization to high-power immunity testing Modular form factor enables integration into fixed benchtop configurations or mobile rack-mounted systems Typical Applications RF and microwave component characterization Radiated immunity and susceptibility testing per EN 61000-4-3 and equivalent standards Communications system validation and bench troubleshooting Amplification of low-level laboratory signals across broadband frequency ranges Compatibility & Integration The 500FC accommodates both standalone benchtop operation and 19" EIA rack integration, allowing deployment in development labs, production test floors, and field service environments. CE certification ensures compliance with essential EU safety and electromagnetic compatibility directives.

500FC Characteristics / Specifications

PARAMETER	VALUE
Model	500FC
Manufacturer	Kalmus
Frequency Range	1 MHz to 500 MHz
Rated Output Power	50 W
Power Gain Class	47 dB
Load Impedance	50 Ohm
Amplifier Role	Broadband RF power amplifier
Typical Use	EMC / RF drive
Input Output Path	RF coax 50 Ohm class
Class Of Operation Class	Linear broadband class (confirm on unit label)
Cooling Class	Forced-air class typical for Kalmus broadband amps
Front Panel Metering Class	Forward/reflected indication class typical
Protection Features Class	VSWR / overdrive protection class typical of Kalmus FC series
Remote Control Class	Optional remote interfaces on some Kalmus models
Form Factor	Benchtop / rack RF amplifier
Series Family	Kalmus FC broadband amplifiers
Frequency Span Decade Class	Nearly 3 decades (1–500 MHz)
Output Connector Class	TypeNclass typical
Input Connector Class	TypeNor BNC class typical
Power Supply	AC mains powered
Operating Mode	CW RF amplification
Documentation Note	Confirm exact gain flatness and harmonics on the unit datasheet/faceplate
Brand Lineage	Kalmus (later AR Modular RF lineage for some models)

500FC Specifications

PARAMETER	VALUE
Kalmus 500FC Broadband RF Power Amplifier	Overview
Applications	RF immunity and general broadband RF power amplification from 1 MHz to 500 MHz at the 50 W class.
Key Features	Broadband 1 MHz to 500 MHz coverage
Approximately 47 dB power gain class	50 Ohm RF amplification path
Technical Specifications	Model: 500FC

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	
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Notes	
From Kalmus 500FC product listings stating 1-500 MHz / 50 W / ~47 dB. Harmonic distortion, flatness, and AC input VA were not consistently	

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.