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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 70590A – IF Section Module

The HP 70590A is an IF section plug-in for 70000 MMS spectrum analyzers. OEM 70000 module lists describe 70590A as an IF processor used with 70900 LO and 7091x RF sections, providing resolution-bandwidth filtering and log/linear detection in the MMS IF chain (21.4 MHz class IF as in other 70902/70903 IF sections). IF processing in HP 70000 modular spectrum analyzers. RBW filtering and detection in the IF chain Platform: HP 70000 modular measurement system If Class: 21.4 MHz class MMS IF as in 70902/70903 family System Family: HP 70000 MMS spectrum analyzers Functions: resolution bandwidth filtering and detection Documentation: HP 70000/70590A MMS IF section data

**MODEL****Agilent / Keysight
70590A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****70590A****LISTING**<https://aumictechlabs.com/products/70590a-2/>

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NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 70590A is a MATE (Test System Module Adapter) designed for integration into HP 70000 Series modular measurement systems. This IF section module incorporates external mixers to interface with the RF section of spectrum analyzer configurations, enabling extended measurement capabilities through command translation between CIIL (Control Intermediate Interface Language) and HP 70000 Series native code. Technical Specifications Module Type: MATE Module for HP 70000 Series spectrum analyzer mainframes Primary Function: External mixer integration for RF section interfacing Control Interface: Translates CIIL

commands to HP 70000 Series native code Available Options: H69, H72 (Test Module Adapters), H61 Documentation: User manual available (part number 70590-90010 for Option H69)Key Features Modular design for direct insertion into HP 70000 Series mainframes External mixer support for specialized signal analysis requirements Native command translation eliminates external control software dependencies Compatible with established 70000 series ecosystemTypical Applications The 70590A suits measurement scenarios requiring external mixer configurations within the 70000 series architecture. RF section expansion, frequency translation analysis, and multi-channel signal measurements benefit from this adapter's mixer integration approach.Compatibility & Integration This module integrates with Agilent/Keysight 70000 series modular measurement systems and works directly with RF section modules. The adapter supports CIL-based control, allowing seamless operation within existing 70000 series configurations. The product is discontinued but may remain supported through Keysight resources and service channels, including repair and calibration services where available.

70590A Characteristics / Specifications

PARAMETER	VALUE
Model	70590A
Instrument Type	MMS IF section module
Platform	HP 70000 modular measurement system
Host Mainframe	70001A MMS mainframe
Lo Module	70900B local oscillator family
Rf Companion	70912B and other 7091x RF sections
If Class	21.4 MHz class MMS IF as in 70902/70903 family
Manufacturer	HP Agilent Keysight
Mechanical Package	MMS plug-in module
System Family	HP 70000 MMS spectrum analyzers
Functions	resolution bandwidth filtering and detection
Documentation	HP 70000/70590A MMS IF section data
Application Class	modular spectrum analysis
Control	MMS master via HP-IB
Duty	continuous IF processing
Calibration	MMS system calibration including IF section
Mainframe Power	from 70001A
Related 70902A	standard MMS IF section sibling family
Related 70903A	wide RBW IF section sibling family
Related 70311A	frequency reference distribution
Display	via MMS display/IF as configured
Module Role	IF processor in 70000 MMS
Bandwidth	filtering and detection

70590A Specifications

PARAMETER	VALUE
HP Agilent 70590A MMS IF Section Module	Overview
Applications	IF processing in HP 70000 modular spectrum analyzers.
Key Features	70000 MMS IF section
Pairs with 70900 LO and 7091x RF	RBW filtering and detection in the IF chain
Technical Specifications	Model: 70590A

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 HP 70000 MMS module lists for 70590A IF section. Exact RBW set follows the IF-section data sheet paired with the installed 70900/7091x modules.	

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.