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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 5086-7781 Oscillator for 8561B Portable Spectrum Analyzer

The Keysight/Agilent/HP 5086-7781 is an oscillator module designed for use in the 8561B Portable Spectrum Analyzer. This oscillator is a critical component responsible for generating the stable and accurate signals necessary for the spectrum analyzer's proper functioning. It ensures precise frequency control and signal purity, which are essential for accurate spectrum analysis.



MODEL

**Keysight / Agilent /
HP 5086-7781**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

5086-7781

LISTING

**[https://aumictechlabs.c
om/products/5086-778
1-2/](https://aumictechlabs.com/products/5086-7781-2/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent/HP 5086-7781 is a YIG-tuned oscillator (YTO) engineered as a critical local oscillator for the 8561B Portable Spectrum Analyzer and compatible 856-series instruments. This oscillator generates highly stable, tunable microwave frequencies spanning 3.0 – 7.0 GHz, delivering the precise frequency control and signal purity required for accurate spectrum analysis across demanding RF and microwave testing environments. Technical Specifications Oscillator Type: YIG-tuned oscillator (YTO) Frequency Range: 3.0 – 7.0 GHz Frequency Stability: High stability design with low phase noise for clear signal resolution Construction: Durable, thermally stable materials Connector Interface: 9-pin connector Power Supply: Designed for compatible

spectrum analyzer systems

Key Features

- Generates highly stable and tunable microwave frequencies
- Ensures precise frequency control and consistent measurement results
- Low phase noise performance for high-resolution signal clarity
- Rugged construction rated for professional testing environments
- Optimized thermal stability for reliable long-term operation

Typical Applications

- RF and microwave spectrum analysis
- Frequency-dependent signal measurements
- Laboratory and field-based spectrum characterization
- Advanced RF testing environments requiring frequency accuracy and signal purity

Compatibility & Integration

The 5086-7781 integrates with the following spectrum analyzer models: HP 8561B Portable Spectrum Analyzer (primary) HP 8560A HP 8561A HP 8562A HP 8562B HP 8563A 856XA/B series instruments

50867781 Characteristics / Specifications

PARAMETER	VALUE
Model	5086-7781
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Oscillator Assembly
Alias	5086-7781
Parent Instrument	8561B portable spectrum analyzer
Parent Frequency Class	8561B 6.5 GHz class portable SA
Function	oscillator (LO/YTO/reference per 8561B location)
Form	RF oscillator assembly
Related 8563E Osc	5086 7906 oscillator for 8563E
Not An Analyzer	module only
Host Chassis	8561B
Status	HP 8561B service part
Installation	match 8561B serial prefix clipping list
ESD	RF assembly
Documentation	8561B service manual oscillator
Calibration	8561B frequency/level cal after swap
Cooling	SA airflow
Power	8561B oscillator supplies
Compatibility	8561B (confirm vs 8560/8562)
Use	restore LO/reference
Identification	5086-7781
RF Path	spectrum-analyzer oscillator path
Not 8563E	8563E uses 5086-7906 in this catalog

PARAMETER	VALUE
Safety	RF assembly; disconnect mains Notes Oscillator identity from HP 5086-7781 for 8561B. Exact oscillator type (YTO vs crystal) is the clipping-list line for the serial prefix. Do not invent GHz LO ranges for the spare.

50867781 Specifications

PARAMETER	VALUE
Applications	- 8561B oscillator replacement
Key Features	- Oscillator 5086-7781
Technical Specifications	Model: 5086-7781

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	
PARAMETER	VALUE
Model	5086-7781
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Oscillator Assembly
Specifications	
PARAMETER	VALUE
Alias	5086-7781
Parent Instrument	8561B portable spectrum analyzer
Parent Frequency Class	8561B 6.5 GHz class portable SA
Specifications	
PARAMETER	VALUE
Function	oscillator (L0/YT0/reference per 8561B location)
Form	RF oscillator assembly
Related 8563E Osc	5086 7906 oscillator for 8563E
Specifications	
PARAMETER	VALUE
Not An Analyzer	module only
Host Chassis	8561B
Status	HP 8561B service part
Specifications	
PARAMETER	VALUE
Installation	match 8561B serial prefix clipping list
ESD	RF assembly
Documentation	8561B service manual oscillator

Specifications

PARAMETER	VALUE
Calibration	8561B frequency/level cal after swap
Cooling	SA airflow
Power	8561B oscillator supplies

Specifications

PARAMETER	VALUE
Compatibility	8561B (confirm vs 8560/8562)
Use	restore L0/reference
Identification	5086-7781

Specifications

PARAMETER	VALUE
RF Path	spectrum-analyzer oscillator path
Not 8563E	8563E uses 5086-7906 in this catalog
Safety	RF assembly; disconnect mains

Notes

Oscillator identity from HP 5086-7781 for 8561B. Exact oscillator type (YTO vs crystal) is the clipping-list line for the serial prefix. Do not invent GHz L0 ranges for the spare.

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.