

**Aumictech**

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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 5086-7906 Oscillator for 8563E

Keysight / Agilent / HP RF Signal Sources. Frequency Range: ** 3.0 to 7.0 GHz (operational range may extend be, Current: 97 mA at 3 GHz.

**MODEL****Keysight / Agilent /
HP 5086-7906****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****5086-7906****LISTING**[https://aumictechlabs.c
om/products/5086-790
6-2/](https://aumictechlabs.com/products/5086-7906-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent/HP 5086-7906 is a YIG-tuned oscillator (YTO) module engineered as a local oscillator source for the 8560E series spectrum analyzers. It delivers stable, accurate reference signals essential for precision frequency measurement and signal processing across demanding RF applications. Technical Specifications Frequency Range: 3.0 to 7.0 GHz (operational range may extend beyond specified limits). Output Level: Approximately +15 dBm at optimal operation; degraded units may produce +10 dBm. Supply Voltages: +5 V, -15 V, and +15 V. All bias voltages must be applied simultaneously to prevent damage. Ground connection relies on chassis integration. Coil Parameters: Main coil resistance: 40 ohms FM coil resistance: 2 ohms Main coil current: 97 mA at 3 GHz; 157 mA at 8 GHz Key Features The integrated bias board monitors YTO output level and dynamically adjusts oscillator transistor bias to maintain flat frequency response across the operating range. The bias control compares RF detector voltage against a reference

set point and modulates the bias voltage accordingly. Output impedance and tuning sensitivity specifications are defined by the host analyzer interface. The YTO requires concurrent application of all supply voltages for proper function and component longevity. Typical Applications Local oscillator source for spectrum analysis from 3.0 to 7.0 GHz. Supports frequency measurement, harmonic analysis, and signal characterization in laboratory and field environments. Compatibility & Integration Compatible Analyzer Models: 8560E, 8560EC, 8560EL, 8561E, 8561EC, 8562E, 8562EC, 8563E, 8563EC, 8564E, 8564EC, 8565E, 8565EC Form Factor: Plug-in module for direct integration into 8560E series chassis. Exchange Part Number: 5086-6906

50867906 Characteristics / Specifications

PARAMETER	VALUE
Model	5086-7906
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Oscillator Assembly
Alias	5086-7906
Parent Instrument	8563E portable spectrum analyzer
Parent Frequency Class	8563E 26.5 GHz class
Function	oscillator assembly in 8563E
Form	RF oscillator assembly
Related 8561B Osc	5086 7781 for 8561B
Not An Analyzer	module only
Host Chassis	8563E
Status	HP 8563E service part
Installation	8563E serial-prefix clipping list
ESD	RF assembly
Documentation	8563E service manual
Calibration	8563E frequency cal after swap
Cooling	SA airflow
Power	8563E oscillator supplies
Compatibility	8563E (confirm vs 8562E/8564E)
Use	restore LO/oscillator
Identification	5086-7906
RF Path	microwave SA oscillator path
Not 8561B	different oscillator 5086-7781
Safety	disconnect mains Notes Oscillator identity from HP 5086-7906 for 8563E. Confirm the exact oscillator location in the 8563E service manual for the serial prefix.

50867906 Specifications

PARAMETER	VALUE
Applications	- 8563E oscillator replacement
Key Features	- Oscillator 5086-7906
Technical Specifications	Model: 5086-7906
Notes	Oscillator identity from HP 5086-7906 for 8563E. Confirm the exact oscillator location in the 8563E service manual for the serial prefix.

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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PARAMETER	VALUE
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PARAMETER	VALUE
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Specifications	
PARAMETER	VALUE
Not An Analyzer	module only
Host Chassis	8563E
Status	HP 8563E service part
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Specifications

PARAMETER	VALUE
Calibration	8563E frequency cal after swap
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Power	8563E oscillator supplies

Specifications

PARAMETER	VALUE
Compatibility	8563E (confirm vs 8562E/8564E)
Use	restore L0/oscillator
Identification	5086-7906

Specifications

PARAMETER	VALUE
RF Path	microwave SA oscillator path
Not 8561B	different oscillator 5086-7781
Safety	disconnect mains

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.