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Provides the flexibility required for distribution output signals from the output of high-quality frequency standards.">

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# HP 5087A Distribution Amplifier



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The HP 5087A amplifier provides the flexibility required for distribution output signals from the output of high-quality frequency standards. Low distortion and excellent isolation make it ideal for providing multiple outputs from atomic or crystal frequency standards. The three input channels will accept 10 MHz, 5 MHz, or 1 MHz, or 100 kHz, in any combination. The number of outputs for each channel is selectable up to a total of 12 outputs. Voltage levels are individually adjustable from 0 Vrms to 3 Vrms for each of the output channels.

Modular lets you structure the product for a variety of distribution needs. Special combinations of input and output modules are available.

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- Low noise and excellent isolation
- Exceptional phase stability and uninterrupted switchover to standby power
- Versatility for special requirements
- Three input channels, up to 12 outputs

## Low noise

Shielding around each input and output plug-in amplifier assures minimum noise and crosstalk. The tuned output amplifiers provide clean signals and high channel-to-channel isolation.

## Exceptional phase stability

A 115/230 volt power supply provides well-regulated current for the amplifiers. Line voltage fluctuations have no measurable effect on the amplitude or phase of the outputs. Provision for external 22-30 volt DC connections insures uninterrupted operation in the event of AC failure.

## Versatile

The standard configuration (Option 031) accepts the normal frequency standard signals of 5 MHz, 1 MHz, and 100 kHz, and provides four outputs at each of these frequencies. Alternate configurations provide a variety of input and output connections and frequencies.

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**Inputs** (Up to three, rear-panel BNC)

Frequencies: 10 MHz, 5 MHz, 1 MHz, or 100 kHz

Level: 0.3 to 3.0 V rms, 50 ohms

Harmonic distortion: >40 dB below rated output

Nonharmonic distortion: >80 dB below rated output

**Outputs** (Up to 12 rear-panel BNC)

Frequencies: 10 MHz, 5 MHz, 1 MHz, or 100 kHz

Level: 0 to 3 V into 50 ohm (screwdriver adjustment)

## Isolation

Load (open or short on any other channel):

Amplitude change: 0.1%

Phase change:

<0.1 ns at 5 or 10 MHz

<0.5 ns at 1 MHz

<5.0 ns at 100 kHz

Injected signal: 1 V signal up to 50 MHz applied to any output except

10 MHz, will be down >60 dB in all other outputs; 10 MHz output channel

will be down >50 dB.

SSB Phase Noise (5 MHz): <145 dB below signal in 1 Hz BW for frequencies

<1 kHz from carrier

## Stability

Amplitude:  $\pm 0.5$  dB, 0 degrees to 50 degrees C

Phase: <0.1 ns/degree C, 5 and 10 MHz

Humidity: 95% at 40 degrees C

Altitude: Up to 30,000 ft

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HP 5087A	Distribution Amplifier Mainframe
Opt 001	5 MHz output amplifier
Opt 002	1 MHz output amplifier
Opt 003	0.1 MHz output amplifier
Opt 004	Input preamplifier (0.1 to 10 MHz)
Opt 005	5 to 1 MHz input divider
Opt 006	1 to 0.1 MHz input divider
Opt 011	5 to 10 MHz input doubler
Opt 012	10 MHz output amplifier

- Opt 013 10 to 5 MHz input divider
- Opt 014 10 to 1 MHz input divider
- Opt 031 5, 1, 0.1 MHz inputs; 4 outputs at each
- Opt 032 Single 5 MHz input and 12 outputs
- Opt 033 Single 10 MHz input and 12 outputs
- Opt 034 Single 5 MHz input, 4 each; outputs at 5, 1, and 0.1 MHz
- Opt 908 Rack Flange Kit

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No literature is available online at this time.

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**Related Information:**

[HP E1750A Broadband Distribution Amplifier](#)

A VXI broadband distribution amplifier module that provides six buffered outputs for distributing clock signals and other sinusoidal signals.

### [HP E1752A VXI Pulse Distribution Amplifier](#)

A VXI pulse distribution amplifier module that provides up to six buffered outputs for distributing standard clock and other signals in laboratory, factory, and general ATE environments.

[HP 59552A Fiber Optic Distribution Amplifier](#) The HP 59552A Fiber Optic Distribution Amplifier provides a simple, modular approach to signal routing.

[HP 59553A Fiber Optic Receiver](#) The HP 59553A Fiber Optic Receiver is located at remote equipment installations to receive a distributed signal from a common clock.

### **Related product families available online:**

### [Distribution Amplifiers](#)



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**Page Updated: Monday May 31 01:29:56 UTC 1999**



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