

System Building Blocks

Tracking Generators

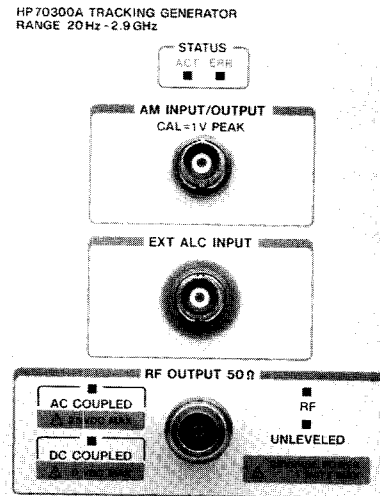
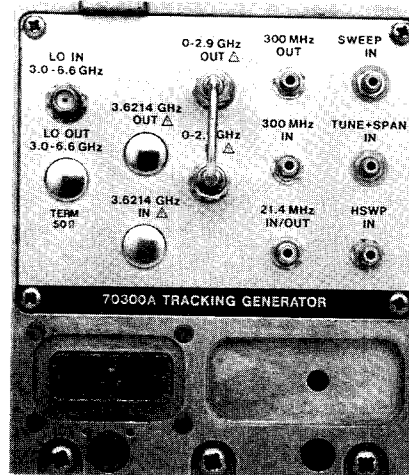
HP 70300A/70301A

Use in scalar and spectrum analyzers

Use as RF and microwave sources

HP 70300A is 20 Hz to 2.9 GHz

HP 70301A is 2.7 GHz to 18 GHz



Component test system

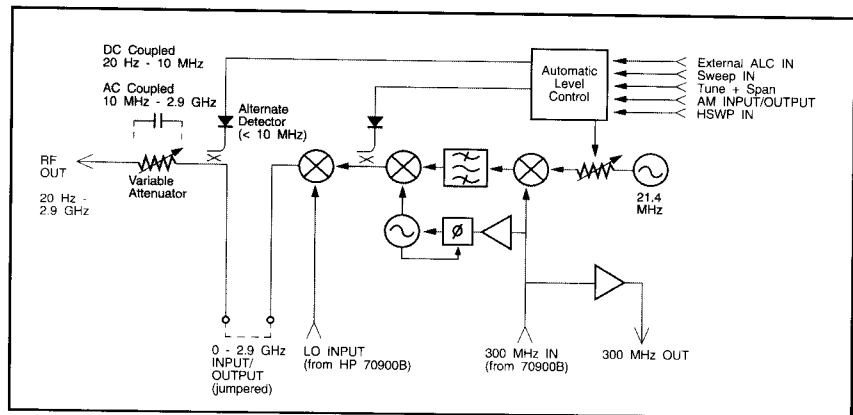
Two tracking generators combine with HP 70000 spectrum analyzers to create component test systems that cover RF to lightwave. Use them with the HP 71100C/P, the HP 71209A/P, or the HP 71210C/P spectrum analyzers for high dynamic range scalar network analysis and for signal analysis measurements.

Characterize the frequency response of optical components using the HP 70300A with the HP 71401C lightwave signal analyzer or use both tracking generators with the HP 71400C lightwave signal analyzer.

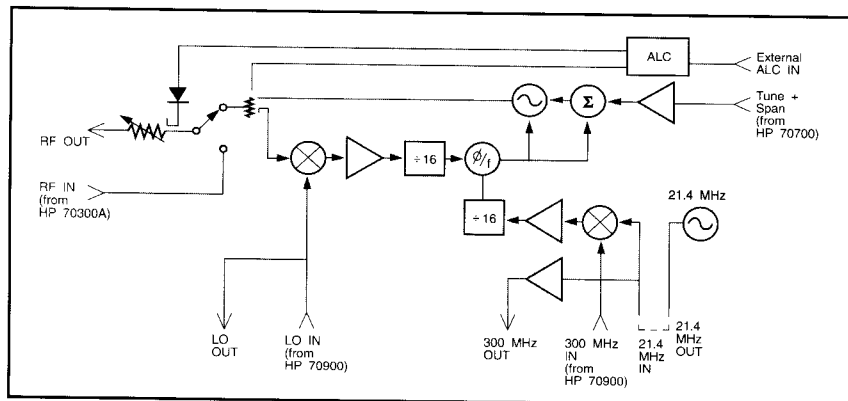
Together the tracking generators cover from 20 Hz to 18 GHz. Both tracking generators are compatible with the HP 70871A scalar personality.

Offset tracking

Make real-time frequency response or gain/loss measurements on mixers, up/down converters, and other frequency-translated devices. Combine the HP 70300A with another HP 70900B LO module to get an independent source that tracks the spectrum analyzer with an offset up to 2.9 GHz from the analyzer input.



HP 70300A block diagram



HP 70301A block diagram

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Tracking Generators

HP 70300A/70301A

RF and microwave sources

Create an RF or microwave source to produce continuous wave (CW) or swept signals. You can use the HP 70300A with the HP 70900B local oscillator for a 20 Hz to 2.9 GHz source (20 Hz to 10 MHz available with alternate detector mode). You can also use the HP 70301A and 70900B for a 2.7 to 18 GHz source. Or use both tracking generators for a 20 Hz to 18 GHz source. These sources are fully programmable with adjustable output power.

The HP 70300A RF tracking generator can be amplitude-modulated and has power sweep capability.

General characteristics

Refer to *Instruments* section for module and system specifications and ordering information.

Installation and Verification Manual HP 70300A

Part number 70300A-90096

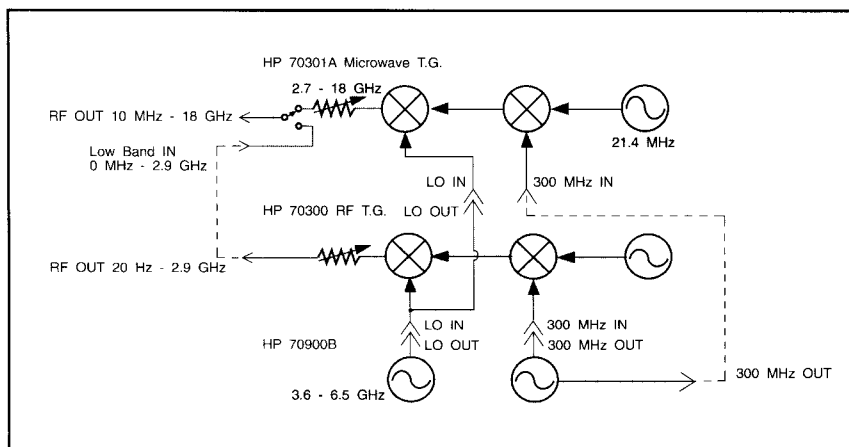
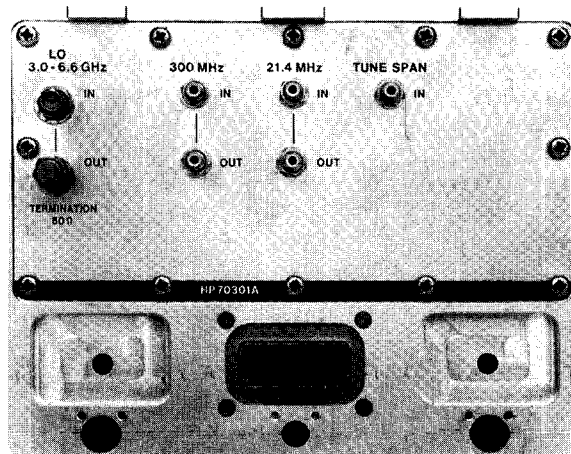
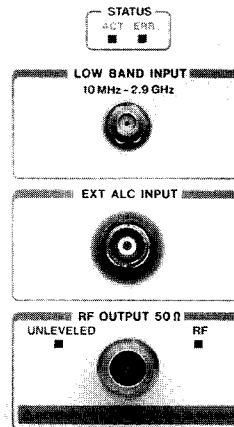
HP 70301A

Part number 70301-90003

Operation Manual HP 70300A and 70301A

Literature number 5958-7011

HP 70301A TRACKING GENERATOR
RANGE 2.7 - 18 GHz



Dual tracking generator source