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New precision coaxial attenuator for OEMs

The HP 33340C Coaxial Attenuator is the latest in Hewlett-Packard's line of OEM components. If your signal needs precise attenuation, or if a component's SWR is too high, you can pad it out with this new coaxial component. The HP 33340C, which operates from dc to 26.5 GHz, offers six optional attenuation values: 3, 6, 10, 20, 30, and 40 dB.

Although OEM service usually involves "bolting in" a component and then forgetting it, the HP 33340C is designed for repeated connections. Its APC-3.5 connectors have a main shoulder of 0.021 inch, compared with 0.009 inch for SMA. Thus, they're much more rugged when repairs are needed.

For more information, check **G** on the HP Reply Card.



New application note replaces popular noise figure primer



If you're concerned with the noise figure of devices, components, subsystems, or systems, you'll want to send for Hewlett-Packard's new application note, *Principles of RF and Microwave Noise Figure Measurements*. This new application note, Number AN 57-1, replaces the highly popular AN 57, *Noise Figure Primer*.

This 40-page note can serve as a comprehensive tutorial for the neophyte, while also providing useful information for the experienced engineer. You'll find material covering subtle measurement considerations such as single-sideband versus double-sideband measurements, effects of local oscillator noise, second-stage effects and corrections, and a review of Y-factor and hot/cold techniques.

An extensive glossary includes common symbols, detailed explanations of most terms, and a bibliography of 34 other noise-related references.

For your free copy of AN 57-1, "Principles of RF and Microwave Noise Figure Measurements," check **H** on the HP Reply Card.

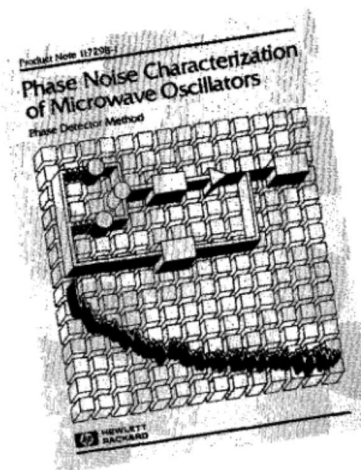
Product note simplifies single-sideband phase noise measurements

Hewlett-Packard's Model 11729B Carrier Noise Test Set turns a relatively complex, subtle measurement procedure into a high-confidence routine for test signals from 5 MHz to 18 GHz. Typical system noise floor at X-band for 10 kHz offsets is below -123 dBc/Hz.

Product Note 11729B-1, *Phase Noise Characterization of Microwave Oscillators (Phase Detector Method)*, presents an overview of the importance of phase noise and compares several common measuring techniques with emphasis on the phase-detection method.

Specific topics covered include phase-lock considerations, loop characterization, system noise-floor calculations, typical system accuracy, and a full section of step-by-step measurement procedures.

For your free copy of Product Note 11729B-1, "Phase Noise Characterization of Microwave Oscillators (Phase Detector Method)," check **I** on the HP Reply Card.





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