

## High Performance Millimeter-Wave Local Oscillator Module for EW Applications

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A miniature high stability local oscillator module has been developed for EW applications. The module consists of a dielectrically stabilized FET oscillator, buffer amplifier and a planar varactor multiplier which are integrated to form a miniature planar circuit. The module exhibits excellent phase noise, high efficiency, high frequency stability and good power stability (over temperature). The module has also been successfully tested over extremes of temperature and vibration environments encountered for military environments without degradation of the LO performance.

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