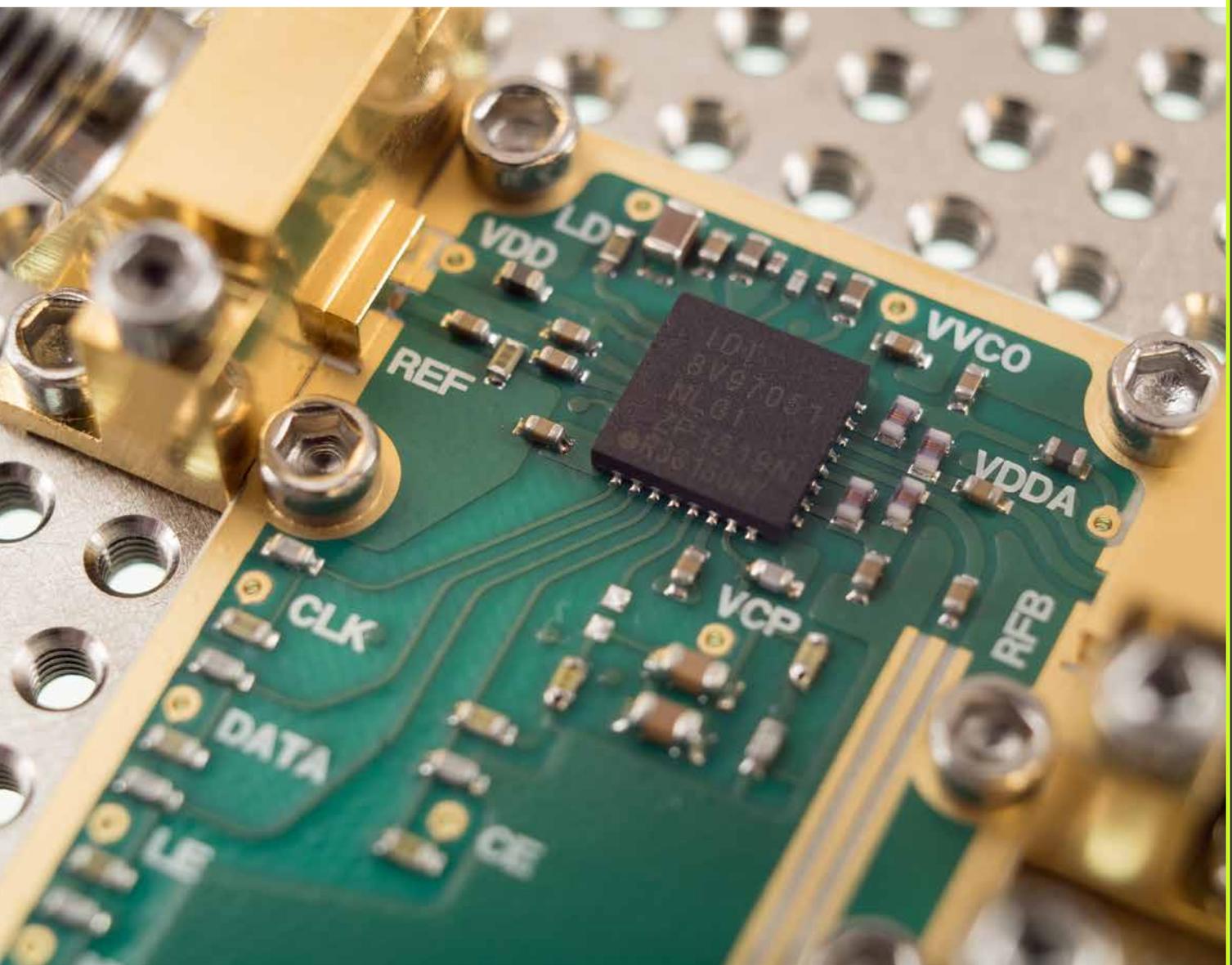


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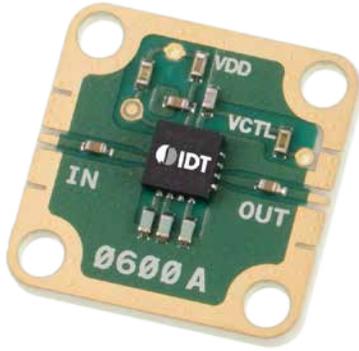


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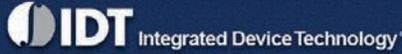
Quickly choose the configuration, program device registers, and store settings for future use.



RaspberryPI Touchscreen Interface

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8V97051L Active

Low Power Wideband Fractional RF Synthesizer

The 8V97051L is a high performance wideband RF synthesizer / PLL optimized for use as the local oscillator (LO) in multi-carrier, multi-mode FDD & TDD base station radio card. It is offered in a compact 5 × 5 mm 32-VFQFN package.

The 8V97051L wideband RF synthesizer / PLL offers a default fractional mode with the option to use it with an Integer mode. It requires an external loop filter.

The 8V97051L with integrated voltage controlled oscillator (VCO) supports output frequencies from 34.375MHz to 4400MHz and maintains superior phase noise and spurious performance.

RF_OUT[A:B] output drivers have independently programmable output power ranging from -4dBm to +7dBm. The RF_OUT outputs can be muted. The mute function is accessible via an SPI command or mute pin.

IDT's RF Synthesizer family also includes the [8V97053L](#) - Wideband RF Synthesizer / PLL with integrated VCO - that offers enhanced phase noise specifications geared to GSM and Band 42 radio cards applications.

Features

- Dual differential outputs
- Output frequency range: 34.375MHz to 4400MHz (continuous range)
- RF output divide by 1, 2, 4, 8, 16, 32, 64
- Programmable output power level: -4dBm to +7dBm
- Mute function
- Ultra-low PN for 1.1GHz LO: -142dBc/Hz at 1MHz

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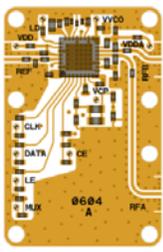
Features

- Dual Differential Outputs
- Output frequency range: 34.375MHz to 4400MHz (continuous range)
- RF Output Divide by 1, 2, 4, 8, 16, 32, 64
- Open Drain Outputs

Applications

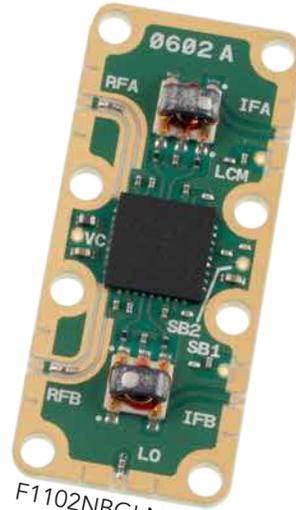
- Wireless infrastructure
- Test Equipment
- CATV Equipment
- Military and Aerospace
- Wireless LAN
- Clock generation

8V97051L





F1701NBGI Mixer



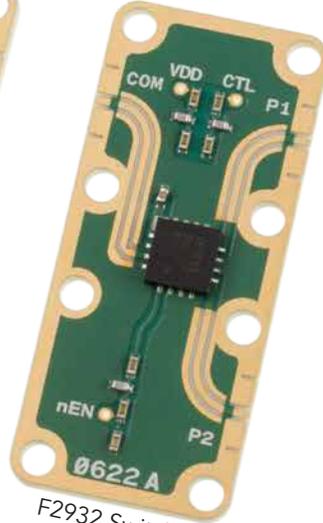
F1102NBGI Mixer



F1953 Attenuator



F2250NLGK Attenuator



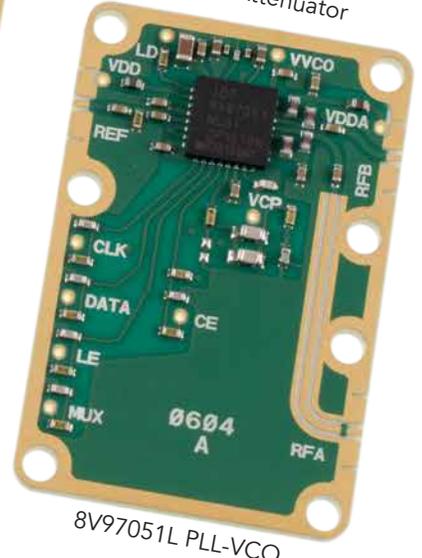
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8V97051L PLL-VCO

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