ANALOG & MIXED-SIGNAL ICs, MODULES, SUBSYSTEMS & INSTRUMENTATION

NEW 10 MHZ TO 20 GHZ SYNTHESIZED SIGNAL GENERATOR!

Compact & Versatile with Excellent Phase Noise

Hittite Microwave has launched the HMC-T2100, a new, easy to implement 10 MHz to 20 GHz Synthesized Signal Generator which provides the highest output power, lowest harmonic levels and broadest frequency range compared with any signal generator in its class for only $7,998.00.

Ideal for use in automated test and measurement environments, research, and development laboratories, the HMC-T2100 is a compact and lightweight frequency generator that delivers +27 dBm of CW output power in 0.1 dB steps over a 40 dB dynamic range. Harmonic rejection is better than -39 dBc at 1 GHz and spurious products are better than -65 dBc at 10 GHz. Phase noise is -113 dBc/Hz @ 100 kHz offset from 1 GHz with insignificant deviation over the temperature range of 0 to +35°C. The broad frequency range of 10 MHz to 20 GHz covers all major communication bands.

HITTITE EXTENDS PLL FRACTIONAL-N SYNTHESIZERS TO 14 GHZ!

Low Noise Synthesizer IC Includes Integrated Sweeper Function

Hittite Microwave has developed a core expertise in frequency generation products including MMIC VCOs, low noise prescalers, multipliers, and now a new line of dual mode integrated synthesizer solutions. The HMC702LP6CE is a SiGe BiCMOS Fractional-N Frequency Synthesizer IC which operates in fractional or integer mode over a frequency range of 100 kHz to 14 GHz providing the ability to develop high performance phase locked loops for cellular base-stations and point-to-point radio links using the same device. Primarily designed for ultra low phase noise applications, its internal architecture includes a 14 GHz 16-bit RFN-Counter.
**HMC740 / 741ST89E**

Active Bias MMIC Amplifiers, 0.05 to 3 GHz

**Features**
- P1dB Output Power to +18.5 dBm
- 15 & 20 dB Gain Versions
- Output IP3 up to +42 dBm
- Single Supply: +5V
- Robust 1000V ESD, Class 1C

**High IP3, Ultra Flat Gain**

The HMC740ST89E & HMC741ST89E are InGaP HBT Gain Block MMIC SMT amplifiers covering 0.05 to 3 GHz. The amplifiers can be used as cascadable 50 Ohm RF or IF gain stages as well as PA or LO drivers with up to +18.5 dBm output power. The amplifiers offer up to 20 dB of gain with a +42 dBm output IP3, and can operate directly from a +5V supply. The HMC740ST89E & HMC741ST89E exhibit excellent stability over temperature, while requiring a minimal number of external bias components.

**HMC816 / 817 / 818LP4E**

Dual Channel Low Noise Amplifiers, 230 to 2200 MHz

**Features**
- Noise Figure as low as 0.5 dB
- Gain up to 22 dB
- Output IP3 up to +40 dBm
- Single Supply: +3V to +5V
- 50 Ohm Matched Input/Output

**Ideal for High Density Receivers**

The HMC816/817/818LP4E are GaAs PHEMT Dual Channel Low Noise Amplifiers that are ideal for Cellular/3G and LTE/WiMAX/4G basestation front-end receivers operating between 230 and 2200 MHz. The amplifiers have been optimized to provide noise figure as low as 0.5 dB with up to 22 dB Gain and +40 dBm output IP3 from a single supply of +5V. Input and output return losses are excellent with minimal external components.

- HMC816LP4E: 0.23 - 0.66 GHz
- HMC817LP4E: 0.55 - 1.2 GHz
- HMC818LP4E: 1.7 - 2.2 GHz

**HMC667LP2E**

Low Noise Amplifier SMT, 2.3 - 2.7 GHz

**Features**
- Low Noise Figure: 0.75 dB
- High Gain: 19 dB
- High Output IP3: +29.5 dBm
- Single Supply: +3V to +5V
- 6 Lead 2x2mm DFN Package

**SDARS & WiMAX LNA**

The HMC667LP2E is a GaAs PHEMT MMIC Low Noise Amplifier that is ideal for WiMAX, WLAN and fixed wireless receivers operating between 2300 and 2700 MHz. This self-biased LNA has been optimized to provide 0.75 dB noise figure, 19 dB gain and +29.5 dBm output IP3 from a single supply of +5V. Input and output return losses are excellent and the LNA requires minimal external components. The HMC667LP2E can also operate from a 3V supply for lower power applications and is a much more compact alternative to externally matched FETs.
HMC753LP4E

**Low Noise Amplifier SMT, 1 - 11 GHz**

**Wideband, High Linearity**

The HMC753LP4E is a GaAs MMIC Wideband Low Noise Amplifier in a leadless 4x4 mm plastic SMT package. The amplifier provides up to 17 dB of small signal gain, 1.5 dB noise figure, and output IP3 of +30 dBm, while requiring only 55 mA from a +5V supply. The P1dB output power of up to +18 dBm enables the LNA to function as a LO driver for many of Hittite’s balanced, I/Q and image reject mixers. The HMC753LP4E is ideal for high capacity microwave radio and is also available in die form as the HMC-ALH444.

**Features**

- Noise Figure: 1.5 dB @ 4 GHz
- Gain: 17 dB
- P1dB Output Power: +18 dBm
- DC Bias: +5V @ 55 mA
- Output IP3: +30 dBm
- 50 Ohm matched Input/Output

HMC772LC4

**Low Noise Amplifier SMT, 2 - 12 GHz**

**Ideal for Test & Measurement**

The HMC772LC4 is a GaAs MMIC HEMT Wideband Low Noise Amplifier housed in a ceramic 4x4mm SMT package. The amplifier provides 15 dB of gain, 1.8 dB noise figure and +13 dBm of output power at 1 dB gain compression while requiring only 45 mA from a +4V supply. The HMC772LC4 amplifier is ideal for integration into SMT based modules due to its small size and 50 Ohm Matched I/Os. The HMC772LC4 is ideal for test equipment applications and can be used to drive the LO port of many of Hittite’s mixers.

**Features**

- Noise Figure: 1.8 dB
- High Gain: 15 dB
- P1dB Output Power: +13 dBm
- DC Bias: +4V @ 45 mA
- 50 Ohm Matched Input/Output

HMC566LP4E

**Low Noise Amplifier SMT, 29 - 36 GHz**

**Ideal for Tx, Rx & LO Chains**

The HMC566LP4E is a high dynamic range GaAs PHEMT MMIC Low Noise Amplifier (LNA) housed in a SMT 4x4mm plastic package operating from 29 to 36 GHz. The HMC566LP4E provides 21 dB of small signal gain, 2.8 dB of noise figure and output IP3 of +24 dBm. This self-biased LNA is ideal for SMT based assemblies due to its compact size, single +3V supply operation, and DC blocked RF I/O’s. This versatile LNA can also be used to drive the LO port of many of Hittite’s Balanced, I/Q, & Sub-harmonic mixers.

**Features**

- Noise Figure: 2.8 dB
- Gain: 21 dB
- OIP3: +24 dBm
- Single Supply: +3V @ 82 mA
- 50 Ohm Matched Input/Output
HMC712 / 712LP3CE / HMC812LC4

**Features**
- Wide Bandwidth: 5 - 30 GHz
- High Linearity: +32 dBm Input IP3
- Wide Attenuation Range: 30 dB
- Die, Plastic SMT & Ceramic SMT Packaged Versions

**High Linearity, Wide Range**
The HMC712, HMC712LP3CE & HMC812LC4 are absorptive Voltage Variable Attenuators (VVAs) which operate from 5 - 30 GHz and are ideal in designs where an analog DC control signal must be used to control RF signal levels over a 28 dB amplitude range. Integrated shunt-type attenuators are controlled by two analog voltages, V1 and V2. Optimum linearity performance is achieved by first varying V1 from -3V to 0V with V2 fixed at -3V. This VVA is available in chip, plastic SMT and ceramic SMT packaging.

HMC709LC5 / 710LC5

**Features**
- High Conversion Gain up to 13 dB
- Sideband Rejection: -20 dB
- LO to RF Isolation: 10 dB
- Output IP3 up to +30 dBm

**Compact SSB Upconverters**
The HMC709LC5 & HMC710LC5 are compact GaAs MMIC I/Q upconverters in leadless RoHS compliant SMT packages. These devices provide small signal conversion gain of 13 dB with -20 dB of sideband rejection. I&Q mixer inputs are provided and an external 90° hybrid is used to select the required sideband. The I/Q mixer topology suppresses the unwanted sideband, while the compact size replaces complicated SSB upconverter assemblies.

HMC696LP4E / 697LP4E

**Features**
- Very Low Noise Floor: -162 dBm/Hz
- Very High Linearity: +23.7 dBm OIP3
- High Output Power, +8.5 dBm Output P1dB
- High Modulation Accuracy

**SiGe Wideband I/Q Modulators, 20 - 4000 MHz**
The HMC696LP4E & HMC697LP4E are low noise, high linearity Direct Quadrature Modulator RFICs which are ideal for applications such as software defined radio and multi-band transmitters. Housed in compact 4x4 mm SMT QFN packages, these RFICs require minimal external components & provide a low cost alternative to more complicated double upconversion architectures. The RF output is single-ended and the LO can be driven in either differential or single-ended mode. These new modulators offer improved carrier feedthrough and sideband suppression characteristics.
**New High Speed Digital Logic Modules**

Hittite has introduced five new high speed logic connectorized modules, which allow designers to address applications requiring data transmission rates up to 50 Gbps, and clock rates as high as 43 GHz. These high speed logic modules are ideal as industry replacements for a number of Inphi logic modules, and may be deployed in OC-768/SDH STM-256 equipment, short, intermediate, and long haul optical transmitter modules, and broadband test and measurement applications.

The logic module family supports single-ended or differential operation, and is optimized for fast rise and fall times, extremely low jitter and low DC power requirements. Typical deterministic jitter is 2 ps, while additive random jitter is less than 0.2 ps RMS. Propagation delay ranges from 200 to 230 ps.

The HMC-C060, HMC-C061, HMC-C062, HMC-C064 and the HMC-C065 operate from a -3.3V supply, are specified for operation from -40°C to +70°C, and are housed in miniature hermetically sealed modules with 1.85 mm coaxial connectors. These modules are available from stock and can be ordered on-line at www.hittite.com.

### Features
- Supports Data Rates to 50 Gbps
- Differential & Single-Ended Operation
- Fast Rise & Fall Times
- Excellent Jitter Performance

**HMC-C062 Output Signal Quality at 43 Gbps**

**Ideal for Optical Transmitters, OC-768 & Broadband Instrumentation**

Hittite's Fractional-N PLL Synthesizer IC Product Line

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Max PFD Frequency (MHz)</th>
<th>Max. Reference Frequency (MHz)</th>
<th>Figure of Merit (Frac/Int) (dBc/Hz)</th>
<th>Frequency Resolution (Hz)</th>
<th>Bias Supply</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMC700LP4E</td>
<td>10 MHz to 8 GHz</td>
<td>70</td>
<td>200</td>
<td>-221 / -226</td>
<td>3</td>
<td>+5V @ 95mA +3.3V @ 95mA</td>
<td>LP4</td>
</tr>
<tr>
<td>New!</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>HMC701LP6CE</td>
<td>10 kHz to 8 GHz</td>
<td>75</td>
<td>200</td>
<td>-221 / -227</td>
<td>3</td>
<td>+5V @ 37mA +3.3V @ 90 mA</td>
<td>LP6C</td>
</tr>
<tr>
<td>New!</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMC702LP6CE</td>
<td>10 kHz to 14 GHz</td>
<td>75</td>
<td>200</td>
<td>-221 / -227</td>
<td>6</td>
<td>+5V @ 37mA +3.3V @ 136 mA</td>
<td>LP6C</td>
</tr>
</tbody>
</table>
New 10 MHz to 20 GHz Synthesized Signal Generator! (continued from page 1)

with frequency resolution of 10 kHz and fast switching speed of 300 us.

Built on a foundation of Hittite’s high quality and market leading MMICs, this versatile signal generator features multiple interfaces (USB, GPIB and Ethernet) and innovative control software ensuring carefree integration within multiple test environments. An installation disk that accompanies each unit includes all of the drivers required to remotely control the device as well as a user friendly LabWindows™ based GUI interface compatible with Windows XP® or Windows Vista® operating systems. User control is facilitated via pull down menus that allow programming of single or swept modes in frequency and/or power. Integration of multiple units within a production test environment is easy and affordable.

The HMC-T2100 is compact and lightweight (7 lbs, 3.2 kg) making it well suited for many test environments, while improving overall productivity and equipment utilization. The size and capability of the HMC-T2100 ensures a simpler test configuration coupled with exceptional value.

The HMC-T2100 Synthesized Signal Generator can be ordered via Hittite’s e-commerce site or direct purchase order. Contact TE@hittite.com today.

Hittite Launches Industry Leading Dual RMS Detector IC! (continued from page 1)

the input signal power ratio between the two power detection channels. The detector also features a measurement of instantaneous signal power normalized to the average power level in each channel.

Low Cost Log Detector, HMC713MS8E

Also available is the HMC713MS8E, ideal for cost-constrained cellular infrastructure applications. The HMC713MS8E is a 54 dB dynamic range Logarithmic Detector/Controller which operates from a +2.7 to +5.5V supply, over the 0.1 to 2.7 GHz frequency range.

8 to 30 GHz Log Detector, HMC662LP3E

The HMC662LP3E is specified for wideband operation from 8 to 30 GHz, and provides more than 54 dB of dynamic range up to 28 GHz. Optimized as a logarithmic detector for high volume microwave and VSAT applications, the HMC662LP3E operates from a +3.3V supply while exhibiting excellent temperature stability and fast rise and fall times.

The HMC714LP5E and HMC662LP3E are housed in plastic RoHS compliant leadless SMT packages. The HMC713-MS8E is housed in a RoHS compliant 8-lead plastic MSOP package. These products are specified for operation over the -40°C to +85°C temperature range. Released datasheets are available on line at www.hittite.com. Product and evaluation kits are available from stock.

A Selection of Hittite’s New Power Detector Products

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (GHz)</th>
<th>Function</th>
<th>Dynamic Range (dB)</th>
<th>RSSI Slope (mV/dB)</th>
<th>RF Threshold Level (dBm)</th>
<th>Bias Supply</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>New!</td>
<td>HMC713MS8E</td>
<td>0.1 - 2.7</td>
<td>Log Detector / Controller</td>
<td>54 ±1</td>
<td>17.5</td>
<td>+5V @ 17mA</td>
<td>MS8</td>
</tr>
<tr>
<td>New!</td>
<td>HMC714LP5E</td>
<td>0.1 - 3.9</td>
<td>Dual RMS Power Detector</td>
<td>71 ±1</td>
<td>37</td>
<td>+5V @ 138mA</td>
<td>LP5</td>
</tr>
<tr>
<td>New!</td>
<td>HMC662LP3E</td>
<td>8 - 30</td>
<td>Log Detector</td>
<td>54 ±3</td>
<td>13.3</td>
<td>+3.3V @ 88mA</td>
<td>LP3</td>
</tr>
</tbody>
</table>

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ENTER TO WIN A HMC-T2100!

Hittite Microwave will be exhibiting at the 2009 IEEE MTT-S International Microwave Symposium and Exhibition to be held in Boston, Massachusetts on June 9, 10 and 11, 2009.

Hittite will feature over 20 new products and will conduct live demonstrations of new products from our Fractional-N PLL Synthesizer IC, Synthesized Signal Generator and Power Detector product lines throughout the exhibition.

Enter to win a HMC-T2100 Signal Generator. Drawing to be held in the Hittite booth #1007 on Wednesday, June 10, 2009 at 3:00pm.

NEW PRODUCT SELECTION GUIDE!

Hittite is pleased to announce the release of the June 2009 Product Selection Guide which summarizes over 750 products. This popular publication is organized by product line as well as by market applications including: Automotive, Broadband, Cellular, Fiber Optic, Microwave & mmWave, Test & Measurement, Military & Space.

To request your copy of the June 2009 Selection Guide or CD-ROM, please visit www.hittite.com and select “submit inquiry” or contact your local Hittite sales representative.

HITTITE ADDS 5 NEW REPRESENTATIVES!

With headquarters in Florida, Precision Marketing Inc. (PMI) offers full support to Hittite customers in Alabama, Florida, Georgia, Mississippi, No. & So. Carolina, and Tennessee and may be contacted at:

Precision Marketing Inc.
Phone: 954-752-1700
E-mail: sales@precision-marketing.com

EMPA Electronics offers full component support and Spark Olcum Teknolojileri Ltd. S offers full instrumentation and connectorized module support to Hittite customers throughout Turkey and may be contacted at:

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Vermont-Rep offers full support to Hittite customers in Brazil and may be contacted at:

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Tera Tech offers full instrumentation and connectorized module support to Hittite customers in New Jersey, New York & E. Pennsylvania and may be contacted at:

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What We Do

Hittite Microwave Corporation is an innovative designer and manufacturer of analog and mixed-signal ICs, Modules, Subsystems and Instrumentation for RF, microwave and millimeterwave applications covering DC to 110 GHz. Our RFIC/MMIC products are developed using state-of-the-art GaAs, GaN, InGaP/GaAs, InP, SOI, SiGe, CMOS and BiCMOS semiconductor processes utilizing MESFET, HEMT, pHEMT, mHEMT, HBT and PIN devices. We offer over 750 products across 20 product lines:

<table>
<thead>
<tr>
<th>Amplifiers</th>
<th>Passives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuators</td>
<td>Phase Shifters</td>
</tr>
<tr>
<td>Data Converters</td>
<td>PLLs</td>
</tr>
<tr>
<td>Freq. Dividers &amp; Detectors</td>
<td>Power Detectors</td>
</tr>
<tr>
<td>Freq. Multipliers</td>
<td>Sensors</td>
</tr>
<tr>
<td>High Speed Digital Logic</td>
<td>Signal Generators</td>
</tr>
<tr>
<td>Limiting Amplifiers</td>
<td>Switches</td>
</tr>
<tr>
<td>Interface</td>
<td>Transimpedance Amplifiers</td>
</tr>
<tr>
<td>Mixers</td>
<td>VGAs</td>
</tr>
<tr>
<td>Mods. &amp; Demodulators</td>
<td>VCOs &amp; PLOs</td>
</tr>
</tbody>
</table>

We also design and supply highly integrated custom ICs, Modules, Subsystems and Instrumentation that combine multiple functions for specific requirements. We select the most appropriate semiconductor and package technologies, uniquely balancing digital and analog integration techniques.

Our custom and standard products support a wide range of wireless / wired communications and radar applications for the following markets:

<table>
<thead>
<tr>
<th>Automotive</th>
<th>Telematics &amp; Sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadband</td>
<td>CATV, DBS, WiMAX, WLAN, Fixed Wireless &amp; UWB</td>
</tr>
<tr>
<td>Cellular Infrastructure</td>
<td>GSM, GPRS, CDMA, WCDMA, UMTS, TD-SCDMA &amp; 4G/LTE</td>
</tr>
<tr>
<td>Fiber Optic</td>
<td>OC-48 to 100G</td>
</tr>
<tr>
<td>Microwave &amp; mmWave Communications</td>
<td>Backhaul Radio Links</td>
</tr>
<tr>
<td></td>
<td>Multi-Point Radios &amp; VSAT</td>
</tr>
<tr>
<td>Military</td>
<td>C4I, ECM &amp; EW</td>
</tr>
<tr>
<td>Space</td>
<td>Payload Electronics</td>
</tr>
<tr>
<td>Test &amp; Measurement</td>
<td>Commercial / Industrial</td>
</tr>
<tr>
<td></td>
<td>Sensors &amp; Test Equipment</td>
</tr>
</tbody>
</table>

Every component is backed by Hittite Microwave’s commitment to total quality. HMC is ISO 9001:2000, AS9100 B and ISO/TS 16949:2002 certified. Every Hittite employee and subcontractor is responsible for maintaining the highest level of quality, thus providing our customers with products that meet or exceed all requirements, are delivered on-time and function reliably throughout their useful life.
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        - Saguro Technical Sales, Inc.
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    - EIZ Hightech
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  - NJ, NY & PA:
    - Tera Tech
    - 888-449-2799
  - IL, IN, IA, KY, MN, ND, SD & WI:
    - Dyrox Midwest
    - 847-245-3200
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      - MB Electronique
    - Greece:
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### Connect Our World Through Integrated Solutions

**June 2009**