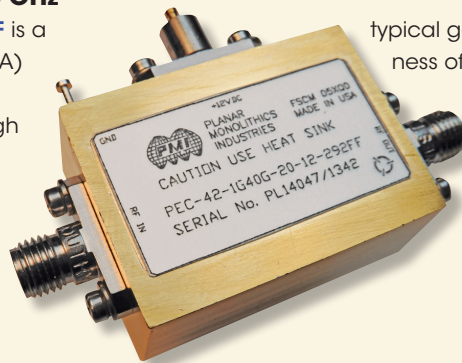


New Products

Low-Noise Amp Quiets 1 To 40 GHz

MODEL PEC-42-1G40G-20-12-292FF is a broadband low-noise amplifier (LNA) with bandwidth of 1 to 40 GHz and typical noise figure of 5.5 dB through 20 GHz. It is supplied in a rugged metal housing with coaxial connectors measuring 1.37 x 1.0 x 0.6 in. The LNA is designed for voltage supplies of +12 to +15 VDC with typical current consumption of 550 mA. It delivers



typical gain of 42 dB with typical gain flatness of ± 2.5 dB. The output power at 1-dB compression is 22 dBm through 18 GHz and +19 dBm from 18 to 40 GHz. The typical input/output VSWR is 2.0:1.

PLANAR MONOLITHICS INDUSTRIES, INC., 7311-F Grove Rd., Frederick, MD 21704; (301) 662-5019, FAX: (301) 662-1731, e-mail: sales@pmi-rf.com, www.pmi-rf.com

Amplifiers Power 18 To 100 GHz

AMPLIFIERS IN the HMPA and HHPA series are available with coaxial input and output connectors, as well as waveguide interconnections for broad bandwidth sections from 18 to 100 GHz. As an example, model HMPAAK-096 provides +10 dBm output power at 1-dB compression from 21.5 to 40.0 GHz with 13-dB typical gain. It is shipped with 2.9-mm female coaxial connectors. Another example, model HHPAAK-443, also designed with 2.9-mm female coaxial connectors, operates from 22.0 to 28.0 GHz with 18-dB typical gain and +27-dBm typical output power at 1-dB compression. At higher frequencies, model HHPAV-295, with WR-15, UG-385/U input and out-

put ports, delivers +15-dBm typical output power and 29-dB typical gain from 57.0 to 66.0 GHz. Each power amplifier is equipped with voltage regulation and bias sequencing circuitry, allowing a single bias supply to supply the amplifier.

HXI MILLIMETER-WAVE PRODUCTS, 12 Lancaster County Rd., Harvard, MA 01451; (978) 772-7774, FAX: (978) 772-7775, e-mail: MMWcomponents@hxi.com, www.hxi.com

Bandpass Filter Screens 915 MHz

MODEL AB915B475 is a cavity bandpass filter with a center frequency of 915 MHz and passband of 902 to 928 MHz. It exhibits passband insertion loss of only 1.5 dB, with passband ripple of less than ± 0.2 dB.

The filter achieves out-of-band signal rejection of more than 45 dB across the lower rejection band from 850 to 894 MHz, as well as across the upper rejection band from 936 to 950 MHz. The return loss is better than 20 dB across the passband. The bandpass filter measures 60 x 120 x 48 mm and is supplied with female Type-N connectors.

ANATECH ELECTRONICS, INC., 70 Outwater Lane, P.O. Box 2217, Garfield, NJ 07026; (973) 772-4242, FAX: (973) 772-4646, e-mail: sales@anatechelectronics.com, www.anatechelectronics.com

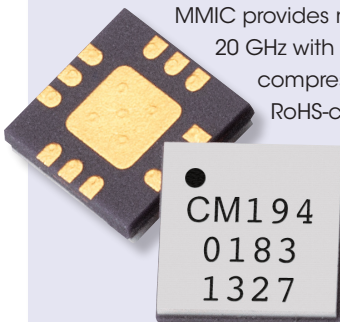
Power Doubler Drives CATV Applications

POWER DOUBLER developed by TriQuint Semiconductor (www.triquint.com) for cable-television (CATV) infrastructure applications requiring flat gain and low distortion. The push-pull cascade design, nominally designed for 50 to 1000 MHz, provides 21-dB typical gain and +34-dBm output power at 1200 MHz. It includes RF electrostatic-discharge (ESD) protection and variable bias control and typically draws 650 mA current from a +12-VDC supply. A good fit for CATV line amplifiers and head-end equipment, it is supplied in a 40-pin, 5 x 7 mm QFN package.

RFMW LTD., 188 Martinvale Lane, San Jose, CA 95119; (408) 414.1450, e-mail: info@rfmw.com, www.rfmw.com

LNA Boosts 6 To 20 GHz

THE MODEL CMD194C3 low-noise amplifier (LNA) from Custom MMIC provides more than 20-dB small-signal gain from 6 to 20 GHz with better than +15-dBm output power at 1-dB compression. The LNA, which is supplied in a leadless, RoHS-compliant 3 x 3 mm ceramic surface-mount QFN package, boasts a noise figure of only 2 dB across its frequency range. Suited for broadband communications and electronic-warfare (EW) applications, the amplifier typically draws 120 mA current from a +4-VDC supply. It delivers +16.5-dBm saturated output power across the frequency range.



CUSTOM MMIC, 1 Park Dr., Unit 12, Westford, MA 01886; (978) 467-4290, FAX: (978) 467-4294, www.CustomMMIC.com