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Abstract This paper describes the design and characterization of a highly integrated X-band power amplifier that utilizes commercially available discrete GaN transistors. The compact design...

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This paper describes the design and characterization of a highly integrated X-band power amplifier that utilizes commercially available discrete GaN transistors. The compact design integrates all of the RF matching and bias circuitry on to er=36 circuit boards, one for the input and one for the output.

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Abstract This paper describes the design and characterization of a highly integrated X-band power amplifier that utilizes commercially available discrete GaN transistors. The compact design integrates all of the RF matching and bias

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circuitry on to $n = 36$
circuit boards, one for
the input and one for
the output.

Compact highly integrated X-band power amplifier using ...

Highly Integrated and
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Modules for Defense
Applications. 223. 0.

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Figure 2 shows a block
diagram of an X-band
FEM with an integrated

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switch. This FEM was designed to fit in a 5mm X 5mm over-molded QFN package. There is a reduction in gain and efficiency using over-mold when compared to an air-cavity lid ...

Highly Integrated and Compact Multichip Modules for ...

This article describes the design of a highly integrated X-band

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receiver module based on a 10-layer LTCC substrate using NI AWR Design Environment electronic design automation (EDA) software. The design achieved the key design goals by integrating surface-mount components with embedded distributed (passive) components built directly into the receiver module substrate.

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Without this limiter an improvement of noise figure and a higher integration is feasible. With this new frontend highly compact X-band T / R modules are feasible when combined for example with a highly integrated SiGe corechip [8].

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GaN-based single-chip frontend for next-generation X-band ...

Campbell CF, Poulton M. Compact highly integrated X-band power amplifier using commercially available discrete GaN FETs. In: Asia-Pacific microwave conference; 2011. p. 243-6.

Systematic design of hybrid high power microwave ...

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based on a highly-integrated digital beamforming (DBF) X/Ka-band receiver platform with a dual-polarization capability. Compact modular architecture of the proposed system enables the realization...

Compact X/Ka-Band Dual-Polarization Spaceborne Digital

...

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Integrated Planar
Duplex Antenna for
Wireless
Communications

Abstract: This paper proposes a novel concept of an integrated duplex antenna for realizing a compact multifunction RF front end by integrating a duplexer and a dual-band patch antenna. First, an all-resonator-based duplexer is designed.

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Compact, Highly
Integrated Front-End
Module for Airborne
W/V band SATCOM
Applications. Printer-
friendly version. Award
Information. Agency: ...
NASA and other space
agencies are involved
in a program called
"Integrated
Interplanetary
Network. W-band is

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one of the main frequency bands this program plan to use to relay data from landers, rovers ...

Compact, Highly Integrated Front-End Module for Airborne W ...

In this communication, a small π -shaped structure that can be highly integrated into a very compact two-inverted-F-antenna (IFA) system is

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presented. The two-IFA design occupies a size of 5 mm × 38 mm (about $0.04\lambda \times 0.30\lambda$ at 2.4 GHz) with two symmetrical IFAs facing each other by a gap of 2 mm only.

Compact Two-Inverted-F-Antenna System With Highly

...

A compact X-band (8.4 GHz to 9.8 GHz) single stage power amplifier (PA) is demonstrated

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using a discrete 0.25 μm discrete GaN power bar with 20 mm of total gate periphery and low-cost passive-only GaAs MMIC technology for the input/output matching. The PA, operated at 30V in pulsed conditions, provides more than 13 dB of linear gain and nearly 70W of output power with peak power added efficiency of 48% at 4 dB of gain compression.

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**A miniature 70 W
quasi-MMIC PA block
suitable for highly ...**

The Mi Smart Compact Projector has tailored chamber volume and matching aperture that jointly provides the best possible acoustic effect within this space. It combines the large integrated sound chamber with a super long sound transducer to produce sounds with rich layers through the

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highly sensitive
speakers.

Mi Smart Compact Projector - Xiaomi United States

System-on-Modules
(SOM) Ultra-compact,
highly integrated
system-on-module
solutions Digi's system-
on-modules (SOMs)
offer multiple
embedded wireless
solutions including
802.11a/b/g/n/ac,
Bluetooth and options

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to add cellular.

System-on-Modules (SOM) - NXP i.MX 8M Nano SOMs, NXP i.MX ...

realization of highly integrated and miniaturized chips [4]. The integrated up- and down-converter MMICs for the customer premise equipment application at 28GHz have been presented [11]. The design was focused for the

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compact chip size to provide low cost solution. Mahon et al. have also reported low band and high band up- and down-converters [12].

HIGHLY INTEGRATED MINIATURE-SIZED SINGLE SIDEBAND ...

These surface mount or integrated filters provide low insertion loss, high isolation, and a compact form factor (some 100x smaller

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than current technologies) for applications such as phased arrays, point-to-point radio, and data links. Tunable filters are also available, with frequencies ranging from Ka Band to W Band.

Nuotronics - Radar & Sensors

Pasternack's digital phase shifters cover frequency bands that range from 0,5 to 37

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GHz. Pasternack's digital phase shifters offer the advantage of having a programmable 8 bit TTL logic interface where phase states can be precisely controlled.

Pasternack's new 8-bit digital phase shifters are in-stock and ready to ship now.

8-Bit Digital Phase Shifters Offer 360 Degrees of Highly ...

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- 2.4 - 2.5 GHz Frequency Range
- The 8TR1216 is a compact, highly integrated front
- Integrated PA, ypass, Tx/Rx Switch
- Low TX current for direct battery connection
- 18mA at +10dm Output Power
- Zigbee Ultra-Low ypass(=Shutdown) current systems in the 2.4GHz band.
- i-Directional ypass with Low Insertion Loss
- 1-bit control between

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- bypass and PA Modes
- Up to 12dm EDR Power
- 2.0 x 2.0 x 0.45 (0.5 max) DFN package with 0.5mm Pitch
- -40° to 125° Temperature Range

8TR1216

The SKY85814-11 is a highly integrated, dual-band front-end module (FEM) incorporating a 5 GHz single-pole, double-throw (SPDT) transmit/receive (T/R) switch, low-noise

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amplifier (LNA) with
bypass, and power
amplifier (PA). The
SKY85814-11 also
includes a 2 GHz
coexistence filter and
dual-band coupler.

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