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Freescale News Release

News Release

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Freescall to showcas expand RF portfolio for commercial aerospace applicatio

Industry's first 1kW LDMOS field effect transistor operating at L-band frequency to be fea
Boston

AUSTIN, Texas – June 2, 2009 – Freescale Semiconductor has introduced five laterally c
semiconductor (LDMOS) field effect transistors (FETs) for commercial aerospace applica
RF portfolio includes L-band (965 MHz to 1215 MHz) devices and the first LDMOS FETs
applications at S-band (3.1 GHz to 3.5 GHz). Freescale will showcase these devices at B
International Microwave Symposium (IMS 2009) in Boston, June 7-12.

The RF power transistors are designed to deliver the highest RF output power, efficiency
class. The exceptionally rugged devices are ideal for pulsed-signal applications, such as
distance measuring equipment (DME) and weather radar.

Freescale's expanded RF portfolio for aerospace applications includes:

MRF6VP121KH/HS – 965 MHz to 1215 MHz, 1kW peak, (100 W average output), 128 μs
duty cycle, 50 Vdc, 20 dB gain, 56% efficiency at 1030 MHz.

MRF6V12500H/HS – 965 MHz to 1215 MHz, 500 W peak, (50 W average output), 128 μs
duty cycle, 50 Vdc, 19 dB gain, 60% efficiency at 1030 MHz. Designed to handle full rater
10:1 VSWR.

MRF6V12250H/HS – 965 MHz to 1215 MHz, 275 W peak, (27.5 W average output), 128
10% duty cycle, 50 Vdc, 20.3 dB gain, 65.5% efficiency at 1030 MHz. Designed to handle
power into 10:1 VSWR.

MRF7S35120HS – 3.1 GHz to 3.5 GHz, 120 W peak, (24 W average output), 100 μsec p
cycle, 32 Vdc, 12 dB gain and 40% efficiency at 3.5 GHz. Designed to handle full rated p
VSWR.

MRF7S35015H – 3.1 GHz to 3.5 GHz, 15 W peak, (3 W average output), 100 μsec pulse
cycle, 32 Vdc, 16 dB gain and 41% efficiency at 3.5 GHz. Designed to handle full rated p
VSWR.

Like other Freescale commercial aerospace RF power transistors, the latest devices are l
incorporate electrostatic discharge (ESD) protection. This ESD circuitry enables a broad
-6 V to +10 V to help improve performance when the devices are operating in higher effic
as Class C.

Pricing and availability

The MRF6VP121KH/HS, MRF6V12250H/HS, MRF7S35120HS and the MRF7S35015H c
production. The MRF6V12500H/HS is expected to be in production in September 2009. A
sampling, and reference test fixtures are available now. Large-signal models for L-band d
in September 2009. For sampling and pricing information, please contact a Freescale sal
an authorized distributor.

Visit Freescale's booth #2018 at [IMS MTT-S](#). For up-to-the-minute show updates, follow I
Twitter: www.twitter.com/RFLeonard.

For more information about Freescale's RF power transistor portfolio, visit www.freescale.com/rfaerospace.

About Freescale Semiconductor

Freescale Semiconductor is a global leader in the design and manufacture of embedded semiconductor solutions for the automotive, consumer, industrial and networking markets. The privately held company is headquartered in Austin, Texas, and has design, research and development, manufacturing or sales operations around the world. For more information, visit www.freescale.com.

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