

MPD MICROWAVE PRODUCT DIGEST

SPECIAL SECTION
LITERATURE SHOWCASE

RF TO LIGHT

SEPTEMBER 2008



High-Linearity Broadband LNAs

Three new high-linearity broadband low noise amplifiers preserve signal purity by minimizing the non-linear contributions. These amplifiers simultaneously achieve several high performance characteristics in a unique wideband design, and are available in three frequency bands of 0.5 to 2 GHz (JCA02-4000), 2 to 4 GHz (JCA24-4001), and 4 to 8 GHz (JCA48-4000). They feature noise figures of under 2 dB up through C-Band, output P1dB levels of +24 dBm, and output IP3 headroom levels of 15 dB or greater above the output P1dB compression point.

WWW.MPDIGEST.COM > 1

ENDWAVE CORPORATION

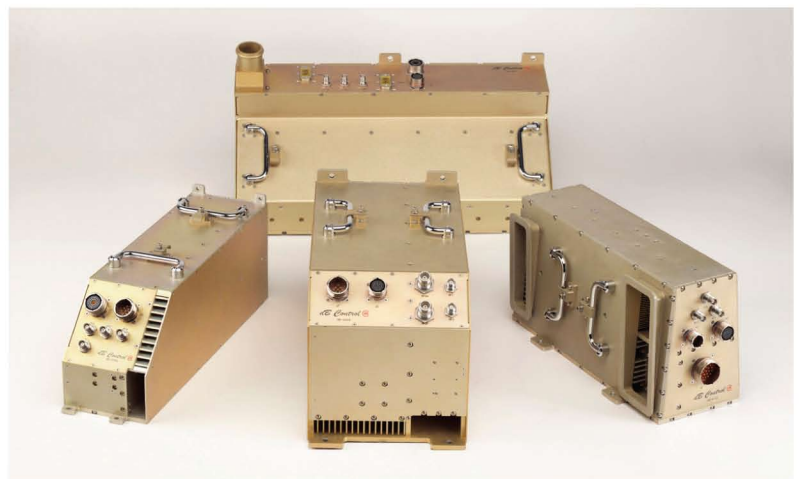


New Asymmetric Tappers

The DN series of asymmetric tappers for outdoor and in-building distributed antenna system applications now includes a 2:1 split and much improved VSWR over existing tapper designs. Each has a bandwidth covering all of the wireless bands from 380 to 2700 MHz, including Tetra, SMR/PMR, and all cellular bands, including the new 700 MHz and WiMAX 2500 MHz band. All are available in either N or 7-16mm DIN connectors, or specials with different genders, or even a mixture of the two connector types.

WWW.MPDIGEST.COM > 2

MICROLAB/FXR



ECM Transmitters for Airborne Applications

The dB-3749 ECM transmitters, fully qualified for military airborne applications and EMI compliant (MIL-STD-461E), include low-band, 2 to 7 GHz, 200W CW/pulse units with output power-switching capability to divert power to two antennas; high-band 6 to 18 GHz, 100W CW units featuring 1500W peak power at a 5% duty cycle with high-speed pulse capability; and 6 to 18 GHz, double-channel transmitters providing 200W CW per channel.

WWW.MPDIGEST.COM > 3

DB CONTROL

In This Issue

Finally – The Spatial Frontier! by CAP Wireless, Inc.	8
Wireless LAN, WiFi and WiMAX Antennas by European Antennas	14
Understanding Gate Lag and how it differs from Switching Speed by Tyco Electronics Wireless Systems Segment, M/A-COM	26
Very Low Jitter (25 fs) Clock Fan-outs for Driving GHz ADCs by Inphi Corporation	35
Antenna Selection for Wireless Communication Systems by Pulse Microwave	40
Radar Protection Filters for Maritime SATCOM Systems by A1 Microwave Ltd.	48
New Silicon Microwave Power Transistor Simplifies RF Design by HVVi Semiconductors Inc.	56
From The Editor	3
In My Opinion	3
In The News	38, 44
Literature Showcase	68