

ANADIGICS

RFICs for Broadband, Wireless and Cable apps. **Power Amplifiers** & FEICs for Handsets, Smartphones and volume markets: CDMA, WCDMA / HSPA, WiMax, WLAN, WiBro, CATV and FTTH/FTTP. Line & Drop Amplifiers, Active Splitters, Tuners, Reverse Amplifiers & Components for CATV.

Channel Microwave

Drop-In, Coaxial & Waveguide **Isolators & Circulators** & custom designed components up to 50 GHz.

Cobham DES

Atlantic MW, Continental MW, M/A-COM, Lansdale (AEL), Kevlin, Nurad & Remec DS:

Antennas, Radomes & Systems, **Rotary Joints**, Pedestals & Positioners. Waveguide Components & Systems. Switch Matrices, Switch Filters, Distribution Systems, Converters, **EW Subsystems** & Power Amplifier Systems.

ComNav Engineering

High-Q ceramic and cavity **Filters** & Diplexers to 8 GHz for commercial and military applications.

Dynawave

RF **Connectors**, Adapters and Cable Assemblies for applications to 40 GHz, including SMA, SSMA, SMP, BMA, 9mm, 2.4mm, N, TNC, MCX & MMCX. **New** - High performance bulk **cable**.

EMC Technology / Florida RF Labs

Chip & High Power Flanged **Terminations, Attenuators, Resistors**, Temp-Comp Smart Loads & **Thermopads**. Chip / Coax Frequency / Temperature Equalizers. SMT Hybrix™ Couplers, Power Dividers, Crossovers & DC Blocks. High performance Cable Assemblies to 65 GHz including Space-Rel products.

Empower RF Systems

High-power, Solid-State Amplifiers for commercial, Industrial & Military applications 2 MHz to 6 GHz in narrow to multi-decade bands. Modules & Rack Mount Assemblies for power from 10W to 2500W. Amplifier Systems for Compliance Testing and Broadcasting applications.

FEI Zyfer

High-precision, GPS-disciplined **Time** and **Frequency Reference** systems for use in military, government and commercial applications. GPS SAASM Receivers. Modular, Redundant & fixed configuration systems are available in ruggedized & COTS versions.

VSWR	Return Loss (dB)
1.01	-46.06
1.02	-40.09
1.03	-36.61
1.04	-34.15
1.05	-32.26
1.06	-30.71
1.07	-29.42
1.08	-28.30
1.09	-27.32
1.10	-26.44
1.15	-23.13
1.20	-20.83
1.25	-19.08
1.30	-17.69
1.40	-15.56
1.50	-13.98
1.75	-11.29
2.00	-9.54
2.50	-7.36
3.00	-6.02
3.50	-5.11
4.00	-4.44
5.00	-3.52
6.00	-2.92

Frequency (Ghz)	Wavelength (mm)	Wavelength (ps)	1 Degree (ps)	10 Degrees (ps)
1	300.00	1000.00	2.7778	27.7778
2	150.00	500.00	1.3889	13.8889
4	75.00	250.00	0.6944	6.9444
6	50.00	166.67	0.4630	4.6296
8	37.50	125.00	0.3472	3.4722
10	30.00	100.00	0.2778	2.7778
12	25.00	83.33	0.2315	2.3148
14	21.43	71.43	0.1984	1.9841
16	18.75	62.50	0.1736	1.7361
18	16.67	55.56	0.1543	1.5432
20	15.00	50.00	0.1389	1.3889
25	12.00	40.00	0.1111	1.1111
30	10.00	33.33	0.0926	0.9259
35	8.57	28.57	0.0794	0.7937
40	7.50	25.00	0.0694	0.6944
50	6.00	20.00	0.0556	0.5556
75	4.00	13.33	0.0370	0.3704
100	3.00	10.00	0.0278	0.2778

Frequency Multiplication	Phase Noise Degradation (dB)
1	0.00
2	-6.02
3	-9.54
4	-12.04
5	-13.98
6	-15.56
7	-16.90
8	-18.06
9	-19.08
10	-20.00
15	-23.52
20	-26.02
25	-27.96
50	-33.98
100	-40.00
200	-46.02
300	-49.54

Hittite Microwave

GaAs, SiGe & CMOS **RFICs, MMICs & MCMs** for Communications, Hi-Rel & Test. Amplifiers, Attenuators, Phase Detectors, Freq. Dividers, Filters, Multipliers, Mixers, Modulators, Demodulators, Switches, PLOs & VCOs up to 110 GHz. Track & Hold Amps, Log & RMS Detectors. Synthesized Signal Generators. High Speed Logic, Optical Drivers and TIA's. Fractional-N & Integer Synthesizer PLLs.

Jennic

802.15.4 & Zigbee 32-bit RISC **Wireless Microcontrollers**. On-chip RF & Microprocessor circuitry provides superior performance, ease of use, low power consumption & fast time to market. Evaluation Kits, Protocols & Programming tools.

Krytar

Ultra-broadband **Couplers**, Power Dividers, Hybrids; Precision Terminations, Adapters and Detectors. Battery-operated CW Power Meters.

Microsemi RFIS

Amplifiers, DLVA's, SDLVA's, Multipliers & Microwave Integrated Assemblies. GaAs & Silicon **Diodes**: Varactors, PINs, Schottkys. Limiters; MOS Caps. RF Power Transistors.

Microwave Filter Co.

RF & Microwave **filters** to 50 GHz. Bandpass, Band Reject, Low-Pass, High-Pass Diplexers, etc. Coaxial, Waveguide, Surface Mount and PCB Thru-Hole Mount Packages. Custom Tubular, LC, Cavity and Tunable filters.

MicroPower Direct

dc/dc converters, 1W to 40W & ac/dc power supplies up to 1,000 W. **AC/DC power supplies** include modular, enclosed, DIN rail & open frame models.

Noisewave

Noise Generation devices, instruments & systems to 40 GHz. Noise Diodes, Modules and Calibrated Noise Sources. Precision Noise Generators, manual or programmable.

Pulsar Microwave

Mixers, Directional Couplers, Hybrids, Power Dividers, Phase Shifters, Switches, Variable Attenuators and Modulators, 0.01 - 27 GHz in PC Mt, SMD and connectorized packages.

RFX Ltd

High Performance **OCXO's**, VCXO's, TCXO's, & PLLs up to 1.0 GHz. Stratum 3, 3E & 4. Small, Low Power OCXO's. Sine Wave, CMOS, PECL outputs.

Senariotek

RF, Microwave Test & **Switching Systems** for Aerospace / Defense, Semiconductor Test & Wireless applications. Frequency Converters & Test Translators

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