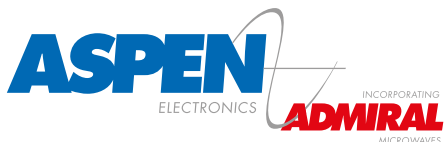


- + COMPONENTS
- + TEST EQUIPMENT
- + DESIGN & MANUFACTURE
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rf@apcplc.com
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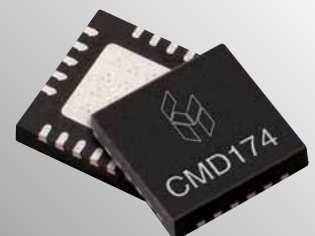
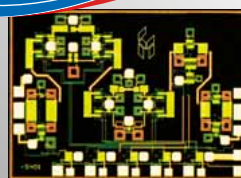
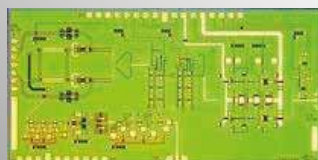
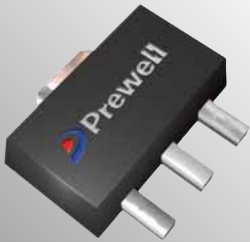
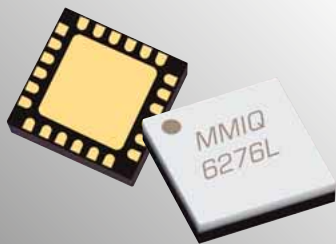
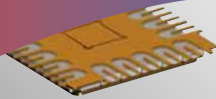
SEMICONDUCTOR
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FM22897

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> **SEMICONDUCTOR
SOLUTIONS
TO 120GHz**



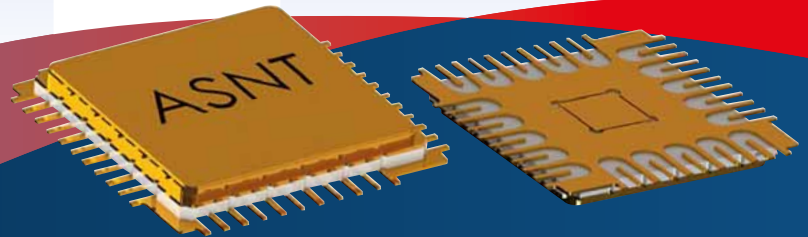
ASPEN OFFERS AN EXTENSIVE RANGE OF SEMICONDUCTORS FOR COMMERCIAL & HI-REL APPLICATIONS FROM DC TO 120GHz PLUS.

COMPONENT INDEX

- Attenuators
- ADCs/SHAs
- Clock Processors/Signal Generators
- Detectors
- Diode Limiters
- Distributed Amplifiers
- Driver Amplifiers
- Equalizers
- FEMs (Front End Modules)
- Gain Blocks
- High Speed Logic
- IF Amplifiers
- IQ Mixers
- LNAs (Low Noise Amplifiers)
- Low Phase Noise Amplifiers
- Mixers
- Multifunctional Chips (TX/RX)
- Multipliers
- NLTLs
- Phase Shifters
- Power Amplifiers
- Serializers/Deserializers (Mux/Demux)
- Switches
- Variable Delay Lines
- VCOs

ADSANTEC CORP

- Very High Speed, Mixed Signal ICs to 54GHz/64Gbps.
- Serializers/Deserializers (Mux/Demux from DC to 64Gbps).
- Variable Delay Lines from DC to 32.5GHz.
- High Speed Analogue Family: Linear Amplifiers, Selectors & Switches.
- Delays, Drivers, FIR Filters & Transimpedance Amplifiers (TIAs).
- High Speed Logic Family: D-Type Flip-Flops, Digital Signal Splitters & Limiting Amplifiers.
- Clock Processors & Signal Generators to 54GHz/53Gbps.
- Interface & Level Converters from DC to 40Gbps.
- Analogue to Digital Signal Converters (ADCs).
- PAM Drivers, Data Generators, Encoders & Signal Generators to 64Gbps.
- Board Level Products including PBRS Generators to 44Gbps.

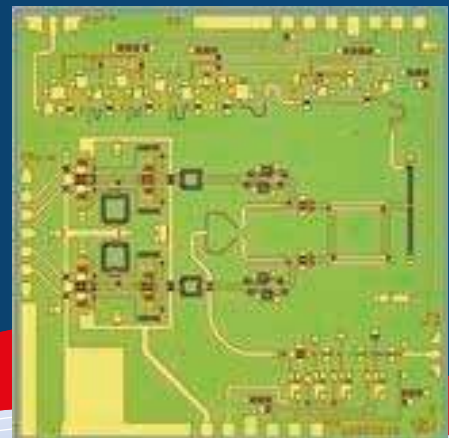
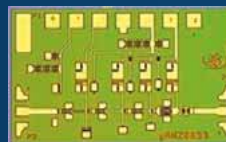


GUERRILLA RF

- RFICs for Wireless Infrastructure, WiFi, Repeaters, Small-Cell, DAS, Instrumentation & Defence Comms.
- Infrastructure LNAs to 6.0GHz.
- High Power LNAs from 0.05 to 6GHz.
- Broadband LNAs & Linear Drivers from 0.1 to 6GHz.
- High Linearity Gain Blocks to 8.0GHz.
- WLAN/ISM/Low Current LNAs/Drivers from 0.1 to 6GHz.
- High Frequency Gain Blocks to 13GHz.

GOTMIC

- High Frequency MMIC Chips from 40 to 170GHz.
- MMIC Receivers, Transmitters & Front-End IC Solutions to 120GHz.
- MMIC Amplifiers, Mixers & Switches.
- MMIC Frequency Multipliers & Detectors.
- Evaluation Boards (EVBs).





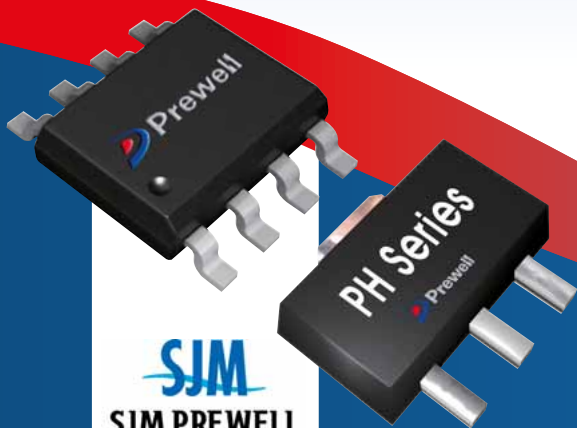
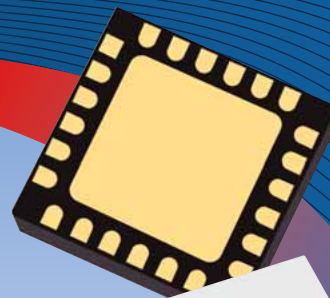
RFIC

- RF Switches from 0.1 to 6GHz. SPDT to SP8T, DPDT & DP4T.
- Front-End Modules for 2.4GHz & 5GHz WLAN 802.11b/g/n/ac. ISM, IoT Systems, Routers, APs, Gateways & Audio/Video Systems.
- Power Amplifiers. 2.4GHz, 5GHz, 1.9 to 2.7GHz, 3.3 to 3.8GHz & Sub 1GHz. 802-11 b/g/n/ac, AP Routers & Boosters, WCDMA Femtocells, LTE, Repeaters & 802.16.
- Low Noise Amplifiers. 2.4 & 5GHz, WLAN, BT, GPS, IoT & 802.11 a/n/ac.



MARKI MICROWAVE

- Diode Limiters, DC to 10GHz.
- Equalizers, DC to 60GHz.
- IQ Image Reject Mixers to 40GHz.
- LO Driver Amplifiers, DC to 35GHz.
- Microlithic & Surface Mount Mixers from DC to 30GHz.
- Mixer Bare Die to 67GHz.
- Multipliers to 40GHz.
- NLT Comb Generators with Output Tones up to 85GHz.



SJM PREWELL

- InGaP HBT MMIC Amplifiers from 5MHz to 6GHz for Commercial, Hi-Rel & Defence Applications.
- Mobile Infrastructure, Cellular, PCS, GSM, GPRS, WCDMA, WLAN, ISM, RFID & Fixed Wireless.
- Low Noise, Gain Block & Medium Power Amplifiers.
- IF Amplifiers for CATV, VHF/UHF Transmission & Receivers.
- SOT-26 Power Dividers.



CUSTOM MMIC

- RF to Millimeter Wave InP pHEMT, GaAs pHEMT, InGaP HBT, GaN pHEMT & GaAs MESFET MMICs.
- Single Function & Integrated Signal Chain, Custom MMIC Designs.
- Distributed Amplifiers, LNAs, PAs & Drivers to 50GHz.
- Phase Shifters, Attenuators & Switches to 40GHz.
- Mixers: Fundamental, Dual & I/Q to 46GHz.
- Multipliers: Active & Passive to 40GHz.
- Low Phase Noise Amplifiers from 6 to 40GHz.
- VCOs in Octave Bands to 40GHz.
- Space Qualified Parts Available.