



## RF & MICROWAVE Products

### Microwave Amplifiers:

Broad band Power Amplifiers, Directional Couplers, Hybrid Couplers, Power Dividers, Switches, Filters.

**AAMCS**

[www.aa-mcs.com](http://www.aa-mcs.com)

### Optical Components:

Q-switch drivers for LASER, Pulse pickers + associated RF drivers, Acousto-Optic Deflectors, Acousto-Optic Frequency shifters, Acousto-Optic Modulators.

**AA OPTO-ELECTRONICS**

[www.aaoptoelectronic.com](http://www.aaoptoelectronic.com)

### Semiconductor:

Power Amplifiers, LNA's up to 6GHz, GaN Power devices in RADAR band C, X, Ku and Ka Band. Power 10 W, Gain Block Amplifier.

**ASB INC**

[www.asb.co.kr](http://www.asb.co.kr)

### RF Passive Components:

Powerfilm Components, Adapters (In series & between series), Fixed Attenuators, DC Blocks up to 50GHz, Terminations, Gain Equalizers (up to 18GHz), Power Divider (Wilkinson & Broadband resistive Power Dividers up to 26.5GHz) Space Grade Components: Chip Attenuators, Chip Resistors.

**API TECHNOLOGIES INMET**

[www.apitech.com](http://www.apitech.com)

### Filters, Amplifiers and Oscillators:

Detectors, Mixers (10MHz to 18GHz), SAW Filter & Delay Modules, Patterning of metallized Alumina Substrates, Amplifiers (Low Noise Amplifiers, Power Amplifiers, Limiting Amplifiers), Attenuators (Voltage Variable and Digital). Space Grade Components: VCO (Hermetically sealed from 30MHz-3000MHz), LNA up to 3GHz, Switch (Pin Diode, GaAs).

**API TECHNOLOGIES (SPECTRUM MICROWAVE INC)**

[www.apitech.com](http://www.apitech.com)

### Waveguide Components & Subsystems:

DC-67GHz Waveguide components from 1W to 50kW power handling, Waveguide to Coaxial adapters, Waveguide-bends (Flexible, Twistable, Seamless), Transitions, Antenna Feeds, Isolators, Circulators, Diplexers, Magic Tees, Amplifier Output Assemblies, Couplers: Cross-Guide Couplers, Directional Couplers, Hot Standby Couplers, Frequency Combiners, Double Ridge Components, Waveguide Filters, Phase Combiners, Variable Power Combiners, Rotary Joints, Pressure Windows, Terminations.

**APOLLO MICROWAVES**

[www.apollomw.com](http://www.apollomw.com)

### Antennas, Positioners, Rotators & Accessories for Antenna System:

Omni directional Antennas, Directional high gain Antennas, Tactical Antennas, Log Periodic Antennas, Array Antenna, Horn Antenna, Positioners and Rotators: Single Axis Positioners, Elevation over Azimuth Positioners.

**ARA INC**

[www.ara-inc.com](http://www.ara-inc.com)

### Synthesizers:

Integrated Synthesizers, DRO's, CRO's, PDRO's, PCRO's PLDRO's (DC-40 GHz), Miniature Block Up/Down Converters (C, X, Ku, Ka band signals to L-Band or vice versa).

**COMMUNICATION TECH INC (CTI)**

[www.ultra.group.com](http://www.ultra.group.com)

### Crane Aerospace And Electronics ( MERRIMAC):

Directional Couplers, Power Dividers, Hybrid Junctions, Mixers Detectors/Modulators, Iso-Dividers, Mixers, Available in Space Qualified and Commercial models also with Flat pin, SMD, Connectorized packages.

**MERRIMAC**

[www.craneae.com](http://www.craneae.com)

### RF Passive Components:

Duplexers, Multiplexers, Couplers, Combiners, Dividers, Broadband Mixers, Up & Down Converters, PIN diode limiters.

**DETI**

[www.deti-sa.com](http://www.deti-sa.com)

### Coaxial & Waveguide Solutions:

Rigid Coaxial Line, Coaxial Cable, Elliptical Waveguide, Circular Waveguide, Pressurization Equipment Dehydrators, Pressurisation Components, Motorised mechanical switches.

**ELECTRONICS  
RESEARCH,  
INC. (ERI)**  
[www.eriinc.com](http://www.eriinc.com)

### Frequency Extension Products:

Frequency Extension products - expand existing Vector Network Analyzer (VNA), Signal generator, Spectrum Analyzer capabilities up to 325GHz, LNA amplifiers, Radar Front End Module up to W Band, CobaltFx mm-wave VNA Test & Measurement, CobaltFx Calibration Kit & Cables, Block down Converters, Amplifiers, Calibration Kit (FEK), Frequency Converters, Frequency Sources, Harmonic Mixers (WHMB), Mixers and Detectors, Multipliers, Noise Sources, Planar Detectors (WOP), Sub Harmonic Mixers (SPM), VNA Frequency Extender FEV - FEC - FEK, Signal Generator Frequency Extenders, Noise Figure Analysers, Frequency Extenders, FMCW/Imaging, mmWave Components.

**FARRAN  
TECHNOLOGY LTD**  
[www.farran.com](http://www.farran.com)

### Impedance Matching Tuners & Pulsed IV RF Measurements, Device characterization & Modelling:

Load Pull & Source Pull and Noise Measurement solutions for RF active device characterization using Automatic Tuners, Fundamental Wideband Tuners, Multi-purpose Multi-Harmonic tuners, High Reflection tuners, Low frequency (<100MHz) Tuners, Manual Tuners over the widest frequency range (30MHz to 110GHz) and Power (up to 450W CW). Measurement and characterization software, Load pull setup accessories (Transistors test fixtures, VNA TRL calibration kits, Tuner Probe Stations and Integrated Solutions, PULSED IV RF Measurements, DEVICE MODELLING).

**FOCUS  
MICROWAVES**  
[www.focus-microwaves.com](http://www.focus-microwaves.com)

### Viva Tech THz:

Millimeter Wave Amplifiers, Active Frequency Multipliers, VCO Frequency Sources, PLO Based Frequency Sources, Waveguide Mixers, Detectors, Isolators, Variable / Fixed Attenuators, Couplers, Filters, Horn Antennas, Downconverter Modules, Frequency Extension TR\_R Module Sets, Cryogenic Primary Noise Standard

**VIVA TECH THz**

### RF Passive Components:

DC to 110 GHz Cable assemblies, Coaxial Cables- Rigid & Flexible, Coaxial Connectors, Crimping tools, Torque wrenches.

**HYTEM (ONLY FOR  
CABLE ASSEMBLIES)**  
[www.hytem.net](http://www.hytem.net)

### RF Power Transistors:

RF Power LDMOS, VDMOS, GaN, Bipolar Transistors for AVIONICS platform like TACAN, IFF for Pulsed RADAR platform in the L, S, C and X band. Pallet & Module amplifiers up to 2KW.

**INTEGRA**  
[www.integratech.com](http://www.integratech.com)

### RF Passive Components:

Attenuator Assemblies, RF Switch Assemblies, Transceiver Testing, Programmable Attenuators, Switches, Power Dividers / Combiners, Fixed Attenuators. Terminations & Rotary Attenuators (DC-40GHz), Panel Mount Attenuators, Push button Attenuators, Toggle & Rocker Attenuators, USB Programmable Attenuators, RF Test System (Programmable Attenuator assembly), RF Matrix switches, Handover test system, Test Accessories.

**JFW INDUSTRIES,  
INC**  
[www.jfwindustries.com](http://www.jfwindustries.com)

## Filters:

Tunable Filters: Manual Tunable Filters, Digitally-Controlled Tunable filters (Transmit Filters, Receive Filters, Notch Filters, Suspended Substrate, Wave Guide, Ceramic Filters), Duplexers / Diplexers, Multiplexers, Switched Filter Banks, PIN Diode Switches, Wireless Filters, Wireless Duplexers, Wireless Assembly.

Space Grade Components: Filters up to 40 Ghz.

**K & L MICROWAVE**  
[www.klmicrowave.com](http://www.klmicrowave.com)

## Microwave Amplifiers:

Solid State Power Amplifiers - CW/Pulsed Amplifiers 20kW up to S Band, 1kW up to C Band, 100W up to X band, 1W up to Ku band, Modular LNA's up to 20GHz and Amplifiers for IMD testing.

**MICROWAVE  
AMPLIFIER LTD**  
[www.microwaveamps.co.uk](http://www.microwaveamps.co.uk)

## RF Passive Components:

Directional Couplers up to 67GHz, Dual Directional Couplers up to 40GHz, 2 way Power dividers up to 45GHz, 4 way Power dividers up to 40GHz, 8 way Power dividers up to 18GHz, Zero Bias Schottky Detectors.

**Thermo-Vacuum Compatible:** In-series and between series adapters - 2.92 mm, 2.4mm, coupler & power divider.

**KRYTAR**  
[www.krytar.com](http://www.krytar.com)

## RF Components:

RF Up converters, RF Down converters, Low noise Amplifiers up to 10GHz with 35dB gain, RF Bidirectional Amplifiers (BDAs) up to 2.5GHz, Power Amplifiers up to 50W, RF Filters, RF Photonics. Pre-selectors & Tuners, Synthesizers & RF Signal Sources, Miniature Harmonic Filters, High Performance Cavity Filters & Custom Filters.

**NUWAVES  
ENGINEERING**  
[www.nuwaves.com](http://www.nuwaves.com)

## Digital Tunable Filters:

Electronically Tunable Band Pass Filters (10MHz To 24GHz): Narrow Band Filters (single octave): NANO-POLE Series, MINI-POLE Series, MINI SMT Series, MAXI-POLE Series, MAXI/4R Series, POWER-POLE Series, MEGA-POLE Series. Wide Band Filters (multi-octave): NANO-ERF Series, MICRO-ERF Series, MINI-ERF Series, ERF-5W, Series. Notch Filters: MINI-POLE Notch Series. MAXI-POLE Notch Series, POWER POLE Notch Series. Integrated Cosite Equipment (ICE). Cosite Interference Analysis Software, VHF & UHF 4 Port Digitally Controlled Tunable Multicouplers, Pre selectors.

**POLEZERO**  
[www.dovermpg.com/  
polezero](http://www.dovermpg.com/polezero)

## M2 Global Technology Ltd :

Coaxial/Drop-In/Waveguide/Flange Circulators & Isolators, Iso adaptors, Directional Couplers, Integrated Iso filters Couplers & Dividers, Microwave Radio Receiver Couplers & Splitters, Coaxial Power Dividers.

**M2 GLOBAL  
TECHNOLOGY LTD.**  
[www.m2global.com](http://www.m2global.com)

## Oscillators & Synthesizers:

Multiplied Gated Crystal Oscillators, Phase Locked Oscillators (PLO/PLL), Driver Amplifiers & Synthesizers, RF Transceivers, IFF1030MHz, 250Watt Power Amplifiers with PAM & PSK modulation, Gated Avionics IFF Oscillator Modules.

**ROPET DESIGN**  
[www.ropetrfdesign.com](http://www.ropetrfdesign.com)

## Microwave Switch & Amplifiers:

Microwave Switch, RF Amplifiers, Attenuators, Detectors, DC Block/Bias Tee, Limiter 5MHz to 65GHz.

**S2D MICROWAVE**  
[www.s2dmicrowave.com](http://www.s2dmicrowave.com)



### High Power SMD RF Switches:

RF Isolation Switch for Rx Protection, High Power (10W, 20W, 100W) RF SP2T, SP3T, SP4T Switches for SDR, TR Modules. Smallest Front End RF switch for TxRx Telecom Systems.

**TAGORE  
TECHNOLOGIES**  
[www.tagoretech.com](http://www.tagoretech.com)

### Microwave SMD Components:

Voltage Controlled Oscillators (VCO) up to 18GHz, SAW Oscillators up to 2GHz, Dielectric Resonator Oscillators (DRO) up to 20GHz, PLL frequency synthesizers, Couplers up to 18GHz, Hybrids up to 8GHz, 2 way Power Dividers up to 16.5GHz, 3 way Power Dividers up to 2.3GHz, 4 way Power Dividers up to 6GHz, LPF's, BPF's, HPF's, Bridge Combiners, Transformers up to 6.5GHz, Mixers, Modulators, Demodulators, Frequency doublers, Phase comparators, phase detectors, phase shifters.

**SYNERGY  
MICROWAVE  
CORP**  
[www.synergymw.com](http://www.synergymw.com)

### AGC Nelco:

FR-4, High-Tg and high-speed epoxy materials, Advanced materials such as BT, Polyamide, Mercury wave and Cyanate ester.

Material for 5G connected world. (Meteor wave 2000/3000/3350/4000/8000/8350)

**AGC NELCO**  
[www.agc-nelco.com](http://www.agc-nelco.com)

### AGC Taconic:

Ceramic Filled PTFE Laminates Woven Glass Reinforced PTFE Laminates Hydrocarbon Laminates Bond Plies / Prepregs

**AGC TACONIC**  
[www.agc-multimaterial.com](http://www.agc-multimaterial.com)

### Jersey Microwave :

Fixed LO Block Converters Ku, Ka, Q & V band block converters indoor or outdoor .

Frequency Converters, Redundancy Systems, Test Loop Translators, Solid State Amplifier BUCs

**JERSEY  
MICROWAVE**  
[www.jersey-microwave.com/solutions](http://www.jersey-microwave.com/solutions)

### Data Path :

Portable SATCOM Antennas, Transportable Hubs, SATCOM Transportable Terminal.

**DATA PATH**  
[www.datapath.com](http://www.datapath.com)

## ELECTRO MECHANICAL PRODUCTS

### Motors and Blowers:

DC Motors & Gear Motors, AC Motors & Gear Motors, BLDC Motors & Gear Motors, Torque Motor, DC/AC-Tube axial Blowers/vane axial Blowers, Cooling Fan, Tachometer Generators, Limited Rotation Torquers.

**Highlights:** MIL- Motors, Torque Motors and Direct drive Motors

**GLOBE MOTORS**  
[www.alliedmotion.com](http://www.alliedmotion.com)

### Smart Encoders and Actuators:

Rotary Encoders, Linear Encoders, Rotary Actuator, Displays and interfaces, Inclinator, Couplings, OEM and custom products, Accessories.

**Highlights:** Encoders with high shock and Vibration level and IP68 protection.

**LIKA**  
[www.lika.it](http://www.lika.it)

### Slip Rings and Rotary Joints:

Slip Rings - Encapsulated Slip Rings, Co- axial Slip Rings, Free Inner Bore, Hybrid Slip Rings. Fiber Optic Rotary Joints & Media Rotary Joints.

**Highlights:** Hybrid rotary joints, Fiber Optic Rotary Joints with 60 Channel.

**SCHLEIFRING**  
[www.schleifring.com](http://www.schleifring.com)

### Circuit Breakers & Thermostat:

Magnetic Circuit Breakers, Aircraft Circuit breakers, Thermostats & Temperature Sensors, Micro switches, Precision Pressure switches.

**Highlights:** Hi-Rel thermostat, Mil qualified circuit breakers, micro switches and limit switches.

**SENSATA  
TECHNOLOGIES**  
[www.sensata.com](http://www.sensata.com)

### Actuators and Special Motors:

Actuators (Rotary& Linear) RVT's & RVDT's, Resolvers, MILGrade Synchros, Hi-Rel DC/AC Gear motors, BLDC Motors etc.

**Highlights:** Aerospace grade Actuators & Motors.

**ZODIAC  
AEROSPACE (PRECILEC)**  
[www.zodiacaerospace.com/en](http://www.zodiacaerospace.com/en)

### Crouzet:

Crouzet expertise in design and manufactures of Switches & Position Sensors, Circuit Breakers, Cockpit controls, BLDC motor, Electromechanical Actuators, force & load Sensors and Instrumentation services to Aerospace & defense, Industrial segments, Transportation and Energy segments.

**CROUZET**  
[www.crouzet.com](http://www.crouzet.com)

### Phytron:

Phytron one of the leading manufacturer of high-precision Stepper Motors and Linear Actuators with Optional Gears and feedback systems.

**Phytron offers:** Space qualified Stepper motor & Actuators, Linear Actuator and Stepper Motor for Vacuum & Cryo, Smooth running stepper motor for industrial and IP protected stepper motor for harsh environment.

**PHYTRON**  
[www.phytron.eu](http://www.phytron.eu)

### Glentek:

Glentek offer a wide variety of standard servo drives and servo motors. If a standard product does not suffice, Glentek also offer custom designs. We offer Servo motors, Servo drives, Baldor motor replacements, Industry standard Servomotor, MTI Torque system replacements.

**GLENTEK**  
[www.glentek.com](http://www.glentek.com)

### Safran Electrical & Power:

Safran Electrical & Power offers a wide range of Mil-Spec qualified relays and application specific devices. It switch and distribute electrical power in Commercial and General aviation, Military aircraft and off-highway vehicle markets.

**Safran offers:** 230V AC contactors, 115V AC contactors, 28V DC contactors up to 600A.

**SAFRAN  
ELECTRICAL  
& POWER**  
[www.safran-electrical-power.com](http://www.safran-electrical-power.com)

## POWER SUPPLY PRODUCTS

### AC-DC, DC-DC, DC-AC, Battery Charger, DC UPS

AC-DC Switching Power Supplies, DC-DC Converters and DC-UPS Systems for Military, Industrial and Commercial applications.

Military power supply for AC-DC, DC-DC, DC-AC AC-AC, available in single and multioutputs as COTS, ROTS, Designed To Meet, Fully Qualified.

Battery Charger ranging from 12 to 48VDC upto 1000W and 27.6 – 162VDC upto 2000W Custom build Supply, Hot Swappable, Rack Mount, Wall and Floor Mount available with power levels ranging from 50 Watts to 50KW and output voltages from 3.3V to 500 VDC.

MIL-STD-810, MIL-STD-167, MIL-S-901, MIL-STD-461, MIL-STD-740, and MIL-STD-1399

**TECHNOLOGY  
DYNAMICS, INC.**  
[www.technologydynamicsinc.com](http://www.technologydynamicsinc.com)

## Rugged Online UPS, Inverter, Freq Converter, PDU, Converters

True Online UPS, AC, DC PDU (Power Distribution units), Solid State Frequency Converter single and three phase, Pure Sine Wave DC-AC Inverter

Custom AC & DC Power Sources, Linear & Lab Power Supplies

Custom EMI Filter, Portable Transformer

External Maintenance Bypass Switches (MBS)

**NOVA ELECTRIC**  
[www.novaelectric.com](http://www.novaelectric.com)

## Laboratory Programmable AC Power supply and DC Power Supply Unit

AC Laboratory Power Supplies : Up to 2kVrms / 3kA each ph. / 1MVA

-Power Supplies cover all applications like network simulation, grid stabilization, high-precision low-power applications in the laboratory or industrial high-performance power supply units up to 1MVA,

DC Laboratory Power Supply : Up to 12kV / 5kA / 1MW.

-This has more than 250 DC laboratory power supply models and a variety of configuration options. Custom built available

**DSC  
ELECTRONICS**  
[www.dsc-electronics.com](http://www.dsc-electronics.com)

## Thermal Solutions

Laird Thermal Systems' broad family of thermoelectric coolers has Different Series : Annular Series, PCX Thermoelectric Cooler, premium Hi-Temp ETX Series , OptoTEC™ OTX/HTX Series ,Power Cycling PCX Series, Ceramic Plate coolers for high heat-pumping applications, HiTemp ETX Series

**LAIRD**  
[www.lairdthermal.com](http://www.lairdthermal.com)

## FREQUENCY CONTROL PRODUCTS

Crystals, Crystal Oscillators, TCXO, OCXO, EMXO, VCXO, VCSO, SAW Filter, Crystal Filter, LC Filter, Disciplined Oscillators, Diplexers - for Military & Space, Industrial, Wireline, Wireless segments.

**Highlights:** Space & High-Rel Oscillators and Filters, Low Phase noise, High Stability, High Shock & Vibration, Low g-sensitivity, Ultra low jitter.

**MICROSEMI - A  
MICROCHIP  
COMPANY  
(ERSTWHILE  
VECTRON  
INTERNATIONAL)**  
[www.vectron.com](http://www.vectron.com)

## Filters-Components-Magnetics

Coaxial Filters (Discrete EMI/EMC Filters), Filtered Circular Connectors, EMI power filters (Power Line Filters & Power Entry Modules), Ceramic Capacitors, Magnetic Transformers, Magnetic Inductors:

**EIS API  
TECHNOLOGIES**  
[www.apitech.com](http://www.apitech.com)

## SECURITY SYSTEMS

### Infra-Red Cameras:

SWIR (Short Wave Infrared), MWIR (Mid Wave Infrared), LWIR (Long Wave Infrared) Ranges, Detector arrays.

**XENICS**  
[www.xenics.com/en](http://www.xenics.com/en)



# ELKAY

*Electromech India Pvt. Ltd.*

## Elkay Electromech India Private Limited

Single source for your critical component needs

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