



# KOLT

**Representatives Line Card**

## OUR STORY

Founded in 2014, we are a technology company specialized in power electronics in Turkey.

- Total of 61 people
- Very experienced engineering team of 12 people
- Dedicated sales team of 5 people
- 3 offices (Head office, Sales office and R&D office)
- ESD controlled inventory including ERP software and dedicated personnel

We are both design and manufacturing approved vendors of major aerospace/defense companies in Turkey, including ASELSAN and ROKETSAN. We are also a strategic partner of ASELSAN.

- ISO 9001, ISO 14001, ISO 45001 certificate
- NATO and MSB approved facility security certificates
- IPC certified manufacturing personnel



## MANUFACTURERS

### POWER SOLUTIONS



Power electronic components for military and space applications.



Transformers, chokes, and inductors



Hybrid power modules for space and military applications



Hi-Rel fuse and ferrite chip solutions for space and military applications.

### SENSOR SOLUTIONS



High-performance MEMS IMUs, INS/GNSS, Gyroscopes, Accelerometers, and AHRs

### CONNECTOR SOLUTIONS



High-density Micro-D, Nano-D, and Micro Circular connectors and cable assemblies



High performance connector and cable assemblies

### HERMETIC PACKAGE



RF & Microwave solutions

### RF SOLUTIONS



RF & Microwave solutions (Antenna, Waveguides, Rotary Joint)



RF/Microwave components and integrated subsystem assemblies



MMIC-based microwave solutions



## GLADIATOR TECHNOLOGIES

Gladiator Technologies is a leading designer and manufacturer of high-performance MEMS IMUs, INS/GNSS, Gyroscopes, Accelerometers, and AHRS. Gladiator Technologies products meet the highest inertial sensor demands in a SWaP-C package, combining low-noise sensors and high-speed data processing.

Origin: USA

Website: [www.gladiatortechnologies.com](http://www.gladiatortechnologies.com)

### 1. [Accelerometers](#)

- **A300D, 3-A300D**, 3-Axis MEMS Accelerometer  
± 40 g
- **A40**, Single-Axis MEMS Accelerometer  
±15 g

### 2. [Gyroscopes](#)

- **G300D Triaxial Gyroscope**  
490°/s
- **G200 Dual Axis Gyroscope**  
300°/s
- **G150Z Single Axis Gyroscope**  
300°/s

### 3. [IMUs](#)

- **LandMark™005 IMU**, 490°/s Gyroscopes & 15g Accelerometers
- **LandMark™007 IMU**, High Speed, 6-Axis, 2000°/s Gyroscopes & 98g Accelerometers
- **LandMark™007X IMU**, High Dynamic 6-Axis, 2000°/s Gyroscopes & 200g Accelerometers
- **LandMark™60LX IMU**, Ultra Low VRW, 490°/s Gyroscopes & 15g Accelerometers
- **MRM60 IMU**, Analog Output, 490°/s Gyroscopes & 15g Accelerometers
- **LandMark™60 IMU**, Standard 6-Axis, 490°/s Gyroscopes & 15g Accelerometers
- **LandMark™60VG**, Vertical Gyro, 490°/s Gyroscopes & 15g Accelerometers
- **LandMark™01 IMU**, Low Cost IMU, 490°/s Gyroscopes & 15g Accelerometers

### 4. [AHRS](#)

- **DIGS™100**, Low Noise, High Speed, MEMS AHRS.

### 5. [INS/GPS](#)

- **LandMark™005 INS/GPS**
- **LandMark™60 INS/GPS**





1. [1.0 mm \(W\) Connectors](#) – DC-110 GHz
2. [0.9 mm SuperMini](#) – DC-67 GHz
3. [2.92 mm \(K\) Connectors](#) – DC-40 GHz
4. [2.40 mm Connectors](#) – DC-50 GHz
5. [1.85 mm \(V\) Connectors](#) – DC-67 GHz
6. [1.35 mm Connectors](#) – Vertical Launch Jack
7. [SSMA Connectors](#) – DC-36 GHz
8. [Flange Termination](#) – 2 Hole Flange
9. [Adapters](#) – DC-110 GHz
10. [N Connectors](#) – DC-18 GHz
11. [Cable Connectors](#) – DC-110 GHz
12. [TNC Connectors](#) – DC-18 GHz
13. [SMKey](#) – High-security keyed coax connectors
14. [SuperSMA Connectors](#) – DC-27 GHz
15. [SuperMini Board-to-Board](#) – DC-18 GHz  
– For board-to-board stacking applications
16. [Tools](#) – Installation, insertion and extraction tools
17. [Launch Accessories](#) – Dielectric, Pin, Hermetic Glass-to-Metal Seals
18. [End Launch Connectors](#) – DC-110 GHz Single / Multi-Layer PCB
19. [Vertical Launch Connectors](#) – DC-110 GHz  
– Solderless  
– Smaller footprint
20. [Waveguide Launch Connectors](#) – Connector options with waveguide probe  
– Designed to fit with: MIL-DLT-38999, MIL-DLT-24308 D-Sub and MIL-DTL-83513 Micro-D
21. [SSBP Multi Coax Connectors and Contacts](#)

## SOUTHWEST MICROWAVE

Southwest Microwave Products Division (MPD) was established in 1987 to provide the highest performance interconnect products for millimeter wave and high-power RF applications. Southwest Microwave serves Defense, Aerospace, and Space / Hi-Rel markets and has deep experience / heritage in various programs.

**Origin:** USA

**Website:** [www.southwestmicrowave.com](http://www.southwestmicrowave.com)





## 1. Microminiature Connection

### – Cable Mount

- [D Series](#)
- [J Series](#)
- [M Series](#)
- [S Series](#)
- [MCU](#)
- [Jumper/Extended and Connector Saver Series](#)

### – PC Board Mount

- [BR M Series](#)
- [BS M Series](#)
- [CBR M Series](#)
- [ST M Series](#)
- [D Series PCB](#)

## 2. Nano Connection

## 3. Custom Cable Assemblies

## MIN-E-CON LLC

MIN-E-CON is an American manufacturer that provides reliable and cost-effective Micro-D (M83513), Micro-Circular, Micro-Strip, and Nano-D connector and cabling solutions with both plastic and metal body options for aviation, military, space, medical, and commercial applications of up to 100 contacts. MIN-E-CON's connectors can be safely paired with other Micro-D connectors in your applications and provide high-efficiency, low-loss transmission with "fifty-lok" contact technology.

**Origin:** USA

**Website:** [www.min-e-con.com](http://www.min-e-con.com)



## **SENSITRON** **SEMICONDUCTOR**

YOUR POWER SOLUTIONS PROVIDER

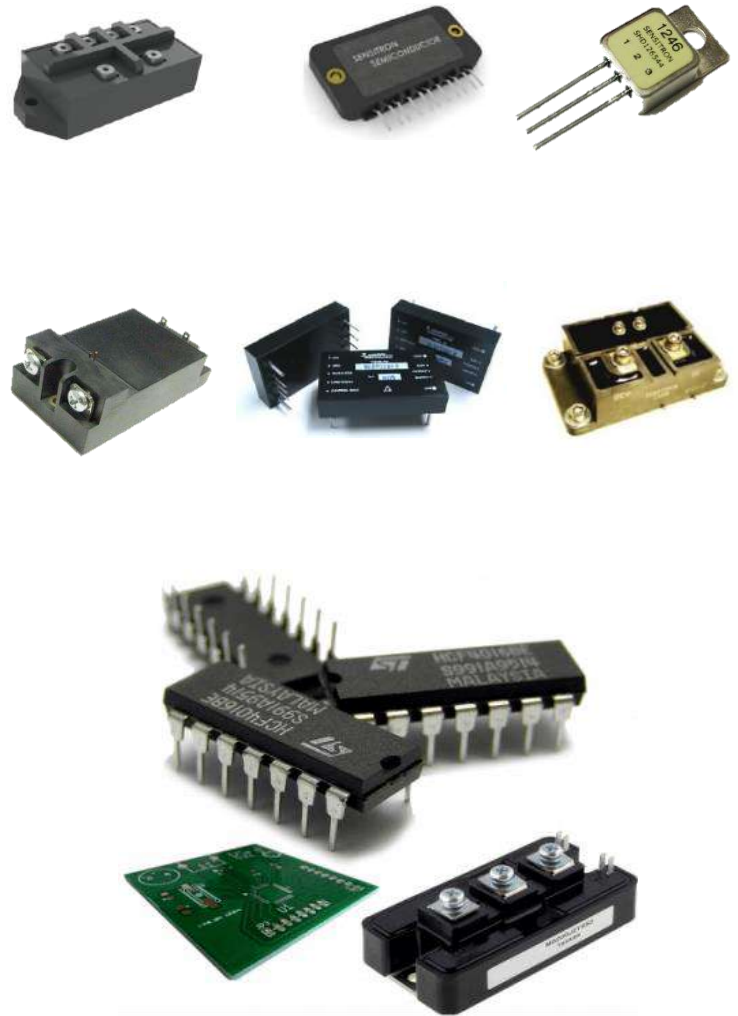
1. **High Power Rectifier Bridge**
  - [Light Weight Bridge Rectifiers](#)
  - [Standart Bridge Rectifiers](#)
  - [High Power Bridge Rectifiers](#)
  
2. **Motion Control & Power Modules**
  - [Complete Motor Controllers](#)
  - [Controllers in Enclosures](#)
  - [Intelligent Power Modules](#)
  - [Power Bridge Modules](#)
  - [Motion Control Capabilities](#)
  
3. **Power Distribution & Control**
  - [Single Channel SSPCs](#)
  - [Multi Channel SSPCS](#)
  - [Linear Voltage Regulators](#)
  - [Solid State Relays](#)
  - [Bidirectional Current Limiter](#)
  
4. **TVS Modules**
  - [High Power Protection](#)
  - [Lightning Strike Protection](#) for 28V
  - [MIL-STD-704 and 1399 Modules](#)
  
5. **High Reliability Diodes & Transistors**
  - [Ultrafast/Fast/Standart Rectifiers](#)
  - [Zener Diodes](#)
  - [Small Signal/Switching Diodes](#)
  - [Solar Array Diodes](#)
  - [TVS Diodes](#)
  - [SiC Schottky Diodes](#)
  - [Diode Arrays](#)
  - [MOSFETs](#)
  - [TVS/Zener/Rectifier Dies](#)
  - [IGBTs/Thyristors](#)
  - [MIL-PRF-19500 QPL Products](#)
  - [Transistor Arrays](#)
  - [Schottky Diodes](#) up to 15-200V
  - [SiC MOSFETs](#) up to 2500V

## SENSITRON

Rugged, lightweight, cost-effective, and high-reliability power electronic component solutions for the Defense, Aerospace, Space, Medical and other high-reliability markets.

**Origin:** USA

**Website:** [www.sensitron.com](http://www.sensitron.com)



# FLUX

*power magnetics*

## 1. Chokes

- Output chokes
- Differential mode choke
- Common mode chokes

## 2. Transformers

- Traditional transformers
- Resonant transformers
- Current sense transformers and GFCI

## 3. Inductors

- PFC Inductors
- Boost Inductors
- Buck Inductors
- Resonant Inductors

## FLUX

Flux with over 25 years of experience in the development and manufacture of customized magnetic components. Over time FLUX developed into a global company servicing the top industries, including aerospace and defence. All products are manufactured by skilled staff in FLUX facilities in either Asnæs, Denmark, or Bangkok, Thailand.

**Origin:** Denmark

**Website:** <http://flux-int.com/>





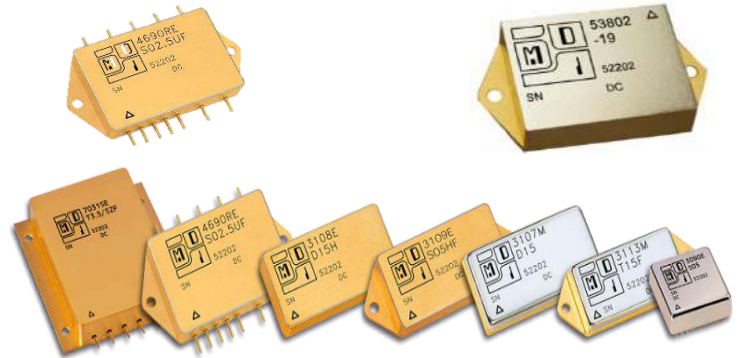


### MDI

Modular Devices Inc. specializes in the rapid design, development, and manufacture of robust, state-of-the-art DC-DC converters, power supplies, power controllers and power distribution products for space, aerospace, military, industrial and commercial systems.

**Origin:** USA

**Website:** [www.mdipower.com](http://www.mdipower.com)



1. [Space Solutions](#)

- Hybrid DC-DC Converters up to Quad Output and 500W Power
- Solid State Relay Rad Hard
- EMI Filters
- Inrush Limiter
- Bus Master Hybrid Module
- Active "OR" Hybrid Module

2. [Military & Aerospace Solutions](#)

- DC-DC Converters up to 100W
- Solid State Relay
- EMI Filters

3. [Marine / Railway / High Temperature](#)

- DC-DC Converters up to 80W



### AEM

AEM provides advanced, high-reliability fuses, ferrite chip beads, and tin whisker mitigation products. AEM's high-reliability fuses are used by NASA and other leading manufacturers of satellites, spacecraft, and space-related equipment worldwide. AEM is the world's sole manufacturer of high-reliability ferrite chip beads designed for space and military use.

**Origin:** USA

**Website:** [www.aem-usa.com](http://www.aem-usa.com)



1. [Hi-Rel Fuses](#)

- High Reliability Solid Body Fuse like P800L, SK406, P600L, P700L, FM12,

2. [Hi-Rel Ferrite Chips](#)

- AEM's ferrite chips are intended for high reliability applications.

3. [Tin Whisker Mitigation](#)

- Tin Whisker Mitigation (TWM) by adding lead (Pb) to chip size components with pure tin (Sn) terminals.



1. [Waveguide Products](#)

- Standard rectangular waveguides ranging from WR-650 to WR-28, including flexible and bendable waveguides

2. [Rotary Joint](#)

- Rotary Joint in a wide variety of coaxial and waveguide configurations for a variety of platform applications such as ship, aerial, on-board radars

3. [Ferrite Device](#)

- Wide variety of ferrite waveguide devices such as Circulators, Switches or Isolators

4. [Monopulse Comparators](#)

- Waveguide Monopulse Comparators for radar applications

5. [Microwave Absorbing Loads](#)

- Wide range of Microwave Absorbers to reduce unwanted reflections

6. [Passive Waveguide Components](#)

- Microwave components according to customer requirements such as Multipole Filters, Orthomode Transducers and Power Combiner/Divider

7. [Antennas](#)

- Waveguide Horn Antenna
- Corugated Horn Antenna
- Planar&Printed Antenna
- Reflector Antenna

8. [Solid State Waveguide Power Limiters](#)

- X-Band TR Limiter based on Solid State technology

9. [Lightweight Waveguides](#)

- Lightweight Waveguides for space applications

10. [Millimeter-wave Components](#)

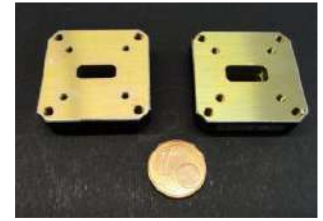
- Products such as Polarizer and OMT are produced by electroforming.

## PASQUALI

Pasquali Microwave Systems manufactures microwave components and assemblies for application in systems of high precision and great reliability such as civil and military radars and, more in general, for applications in space, telecommunications, and security sectors.

**Origin:** Italy

**Website:** [www.pasquali-microwavesystems.com](http://www.pasquali-microwavesystems.com)





## 1. [Amplifiers](#)

- Low Noise Amplifiers, Wideband Amplifiers, Medium Power Amplifiers, High Power Amplifiers operating over the frequency range of DC-40GHz.

## 2. [Digital Phase Shifters](#)

- 5/6/7/8-Bit digital phase shifters in various frequency bands of L, S, C, X, Ku, etc. with on-chip TTL driver for phased array radar applications. Additional advantages are low power consumption & faster switching with the signal drivers.

## 3. [Core Chips](#)

- Multi-Functional Transmit / Receive 3 port core chip operating in X Band.

## 4. [Attenuators](#)

- Low loss fixed attenuators up to 40GHz as well as digital attenuators up to 20GHz.

## 5. [Switches](#)

- Variety of broadband HEMT switches covering DC-40GHz with very low insertion loss, high isolations & switching speeds less than 50ns.

## 6. [Mixers](#)

- Double balanced mixers from 2-18GHz with IF frequency as high as DC-4GHz with LO Powers ranging from 7-13dBm.

## 7. [Custom Products](#)

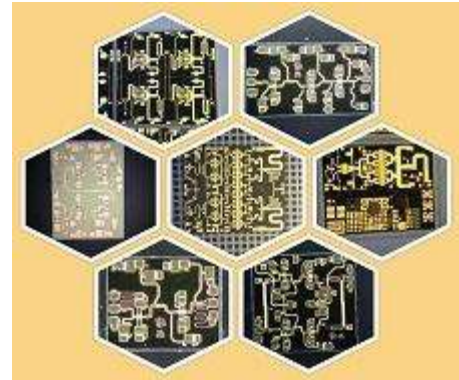
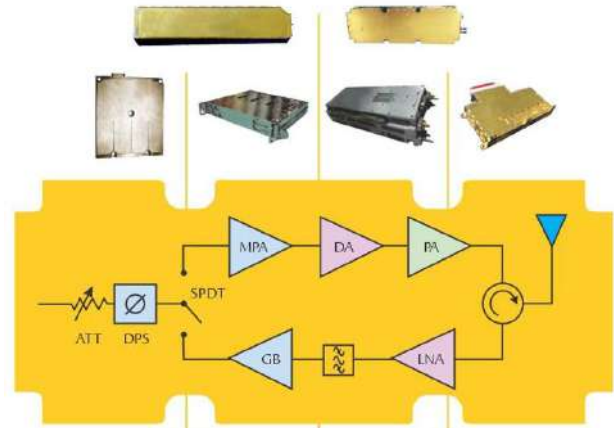
- Development of custom MMIC. The products are tested and packaged as per customer's requirement utilizing state-of-the-art facilities.

## AELIUS

Aelius Semiconductors develops GaAs and GaN MMIC (Monolithic Microwave Integrated Circuit) products based on a robust and reliable design philosophy. Products of Aelius Semiconductors find applications in Wireless & Telecom, Industrial, Military & Space Markets.

**Origin:** Singapore

**Website:** [www.aeliussemi.com](http://www.aeliussemi.com)



## Quantic™ TRM

1. [Directional Couplers](#)
  - Three and four port directional couplers, and dual directional couplers which are realized by using lumped element, airline or stripline technology up to 26.5 GHz.
2. [Hybrids](#)
  - High Power Cellular, PCS and Dual band models for telecommunication app. and octave/multi-octave band lower power, high performing devices for land, air and sea based military architectures.
3. [Power Dividers Combiners](#)
  - Complete series of standard in-phase units from 2-way to 24-way, in the frequency range of DC-26.5 GHz.
  - Balun Transformers
  - Beamformers
  - High Power Combiners, Couplers, Hybrids
4. [Custom](#)
  - Modulators
  - Phase Comparators
  - Switched Combiners
  - Power Dividers
  - Space Qualified Solutions

## QUANTIC TRM MICROWAVE

Founded in 1970 as Technical Research and Manufacturing, Inc., Quantic TRM delivers industry-leading custom passive RF and microwave solutions to the most technically demanding prime defense contractors. Quantic TRM products are designed into mission-critical systems and subsystems from space and airborne applications to ground- and ship-based radars, and more.

**Origin:** USA

**Website:** [www.trmmicrowave.com](http://www.trmmicrowave.com)



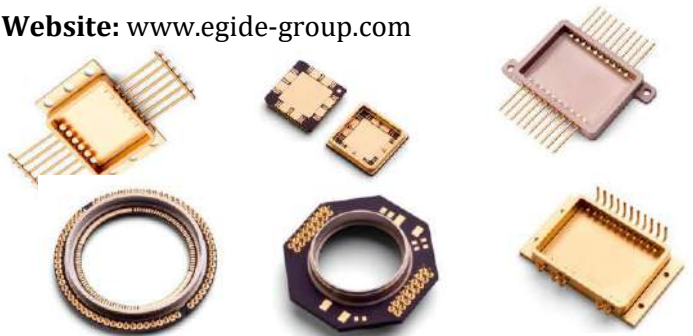
1. [Thermal Imaging](#)
  - HTCC (High Temperature Co-Fired Ceramic) package solutions
2. [Optoelectronic](#)
  - High-frequency package solutions used for 100G and 400G TOSA/ ROSA and modulator designs with multi-layer HTCC technology.
3. [Power Packages](#)
  - For power converters, motor drives, SMPS, hybrid power converters, using GTMS (Glass-to-Metal Seal) or CTMS (ceramic to metal seal feeding technology) package solutions.
4. [RF/Microwave](#)
  - Package solutions made with both Kovar and Aluminum materials.

## EGIDE

The Egide Grup is a leading developer and manufacturer of hermetic package housings and assemblies for micro-electronic and optical product applications. EGIDE's solutions include Ceramic-to-Metal Seal (CTMS), Glass-to-Metal Seal (GTMS), and High-Temperature Co-fired Ceramic (HTCC) hermetic packages. These products are deployed in critical applications such as combat aircraft, missiles, computers, infrared detectors, radars, equipment in armored vehicles, helicopters, drones, aircraft carriers, and FADEC systems.

**Origin:** France

**Website:** [www.egide-group.com](http://www.egide-group.com)



## Notes

### KOLT'S COTS PRODUCTS

We design and manufacture military grade power conversion products;

#### Brick Modules



#### Packaged Brick Modules



#### Power Modules



#### VPX Power Supplies



#### Battery Chargers

#### AC/DC Power Supplies



## KOLT MÜHENDİSLİK A. Ş.

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<b>Mail</b>	: <a href="mailto:KSG@kolt.com.tr">KSG@kolt.com.tr</a> (KOLT Sales Group)