

# **ES Components**

A Franchised Distributor

108 Pratts Junction Road Sterling, MA 01564 P: 978-422-7641 www.escomponents.com sales@escomponents.com

REPRESENTED BY GM SYSTEMS

All The

Bare Die, Surface Mount, And Precision Components

You **Need** 

- ✓ Large Off The Shelf Inventory (OTSI)
- ✓ MIL-PRF-38534/19500 Element Evaluations to Class H and K
- ✓ Up-screening to Military and Customer Drawings
- ✓ We also have a large inventory of obsolete (DMSMS) Die





Aerospace

**Military** 

Medical

Energy

**Industrial** 

**High-Temp** 













- Dale
- Electro-Films
- Semiconductors
- Sfernice
- Siliconix
- Sprague
- Vishay Thin-Film
- Vitramon
- And many more...



















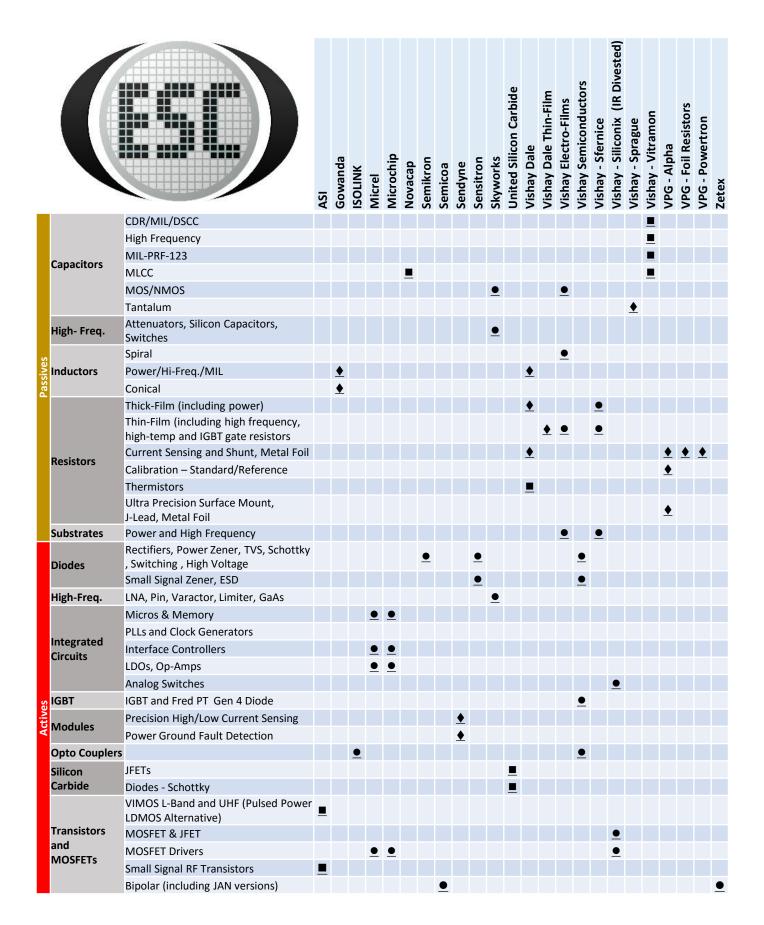












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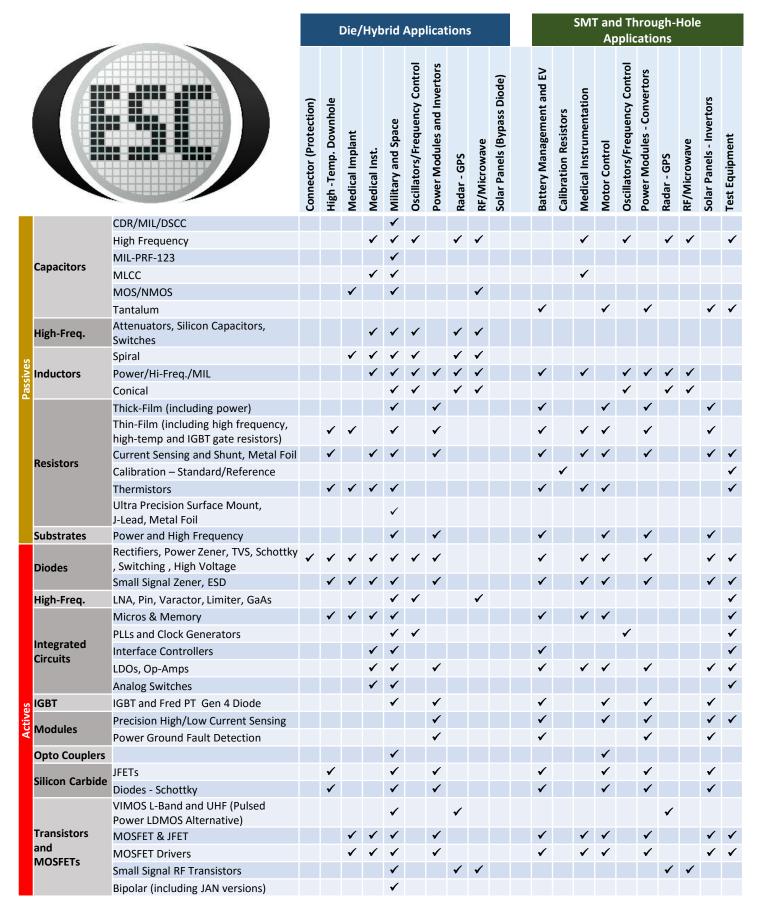
● Bare Die – Wire Bondable – Epoxyable

◆ Packaged (SMT/Through Hole)

■ Bare Die or Packaged (SMT/Through Hole)



Rev: 2.2 1/25/16 PAGE 2



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# **Extended-Range!**

MIL-PRF-123 Caps

- Case sizes 0402 1826
- 16V 500V
- **Full 123 Screening and QCI**





## **Digitally Assisted Analog** (DAA) Precision **Current Sensing**

- 3 mA to 500A
- **Enables accurate** state-of-charge measurement



±0.25 % accuracy

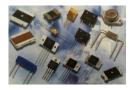


Learn More

**Sendyne**<sup>®</sup>

### **Precision Metal** Film Resistors

- **Low TCRs**
- **Excellent Long Term Stability**

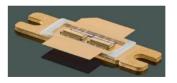








### **Reliable VIMOS! High-Power Pulsed L-Band LDMOS** Replacement **Solutions**





Learn More

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### **GM SYSTEMS, LLC. LINE CARD**

Tom Terlizzi t2@gmsystems.com WEB SITE http://www.gmsystems.com/631-269-3820 (LAND LINE) 516-807-9488 (CELL)



ASSEMBLY SERVICES - ELECTRONIC COMPONENTS, DESIGN, TEST AND SOFTWARE SERVICES SUBSTRATES & PACKAGES - EQUIPMENT & TOOLS - MATERIALS & ADHESIVES

Representing the following Companies: **ASSEMBLY SERVICES** 

Advanced Circuit Technology is a contract manufacturer of hybrid circuits and SMT printed circuit board assemblies and boxes. Advanced Circuit Technology is ITAR certified, has a secure facility for classified work, an Altitude Chamber, and a SCS Parylene Conformal Coater (<a href="http://www.advcircuit.com/index.php">http://www.advcircuit.com/index.php</a>)

Cirtek Electronics—semiconductor and SMT device assembly providing services from wafer probe, wafer back grinding, wire bonding, assembly and packaging and final testing of semiconductor devices. Plastic Package offerings range from diodes, QFN's, Metal can TO-packages, to Chip on Board (COB). (http://www.cirtek-electronics.com)

#### ELECTRONIC COMPONENTS, DESIGN, TEST and SOFTWARE SERVICES

Agile Microwave Technology design, develops and manufacturers standard and custom RF and Microwave LNA's and Power Amplifiers, multi-function RF & Microwave modules and MCM's for Wireless, Telecom, Military and Space Markets. (http://www.agilemwt.com)

<u>DTA-SA</u> is Satellite Equipment Manufacturer (Amplifiers- SSPA, Demodulator, Down Converters, Embedded software) providing development of customized and standard products in the field of satellite communication both for turnkey terrestrial solutions as well as for on board satellite Flight systems. (http://www.dta-sa.com/index.html)

OMMIC is a supplier of MMIC circuits, Foundry Service and Epitaxial Wafers based on III-V (GaAs, GaN and InP) materials. OMMIC provides its customers with cutting edge performance for Telecommunication, Space and Defense Applications. include mixed mode E/D PHEMT, Low Noise and Power PHEMT, Metamorphic HEMT and InP DHBT allowing the design of a wide range of MMICs including LNAs from 900 MHz to 160 GHz, Highly Integrated T/R Functions and Millimeter wave Power Amplifiers. (http://www.ommic.com)

COMPUPOWER PRIVATE LIMITED- over the years has provided highly reliable 1553 databus couplers and transformers for Mil-Std-1553 applications as well as providing custom design, manufacturing and test services related to Mil-Std-1553 Data Bus Products. In addition to offering of-the –shelf products for Military and Aerospace markets. (http://www.compupowerindia.com/index.html)

CISSOID is the leader in high temperature semiconductor solutions, delivering standard products and custom solutions for power management, power conversion and signal conditioning in extreme temperature and harsh environments. CISSOID provides high reliability products guaranteed from -55°C to +225°C and commonly used outside that range, from cryogenic lows to upper extremes. (http://www.cissoid.com)

**ES Components** is a bare die distributor supplying Military and Commercial grade Bare Die and Epoxy Mountable Passive components to the Hybrid and MCM markets. With an extensive inventory of over 40,000 line items, managed inventory solutions and value-added services, ES Components is your source for active and passive microelectronic components in wafer, bare die, and package form. (<a href="http://www.escomponents.com/index.php">http://www.escomponents.com/index.php</a>)

<u>Silicon Link</u> is a supplier of power management Integrated Circuits, Power MOSFETS, TVS Diode, SCR's semiconductors. Silicon Link acquired the semiconductor division of Astec Power Supply. (http://www.silicon-link.com)

Indie Semiconductor is a privately held semiconductor company, specializing in custom ASIC development for embedded systems in the consumer, medical and automotive spaces. Indie's ASICs may embed an ARM microcontroller core together with a variety of analog and mixed signal blocks, including low power or high voltage power management, wired and wireless communications interfaces, sensor interfaces, user interfaces or high voltage control interfaces. (http://www.indiesemi.com)

Midarome Electronics is a consulting firm specializing in product/test engineering and product marketing for discrete semiconductors. Specific services include troubleshooting yield/quality problems, optimizing test methods, sourcing test equipment, sourcing wafer foundries, and training. The training covers areas of project management, strategic marketing of technology products and QA methods. (http://www.midarome.com)

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### **GM SYSTEMS, LLC. LINE CARD**

**Y.L.S Precision Industry Ltd.** is a manufacturer of custom connectors, sensor housings, Insert Molding, automobile parts, computer peripheral connectors. They are the qualified supplier of TI, Sensata, Molex, FCI, Samtec, Teledyne, Amphenol, Foxlink, Taisol. (http://www.yls-plastic.com/eng/index3.php)

Aldec, Inc. is an industry-leading Electronic Design Automation (EDA) company delivering innovative design creation, simulation and verification solutions to assist in the development of complex FPGA, ASIC, SoC and embedded system designs. (http://www.aldec.com/en)

ALE System Integration provides custom Software and Hardware test solutions that save you time and money using the latest tools (LAB VIEW) and industry best practices. With flexible tools we are able to service a wide variety of industries and unique product applications including Commercial Component and Systems Manufacturing, Military, Aerospace, Test Labs, Research Groups, Automotive, Medical, Hospital, Oil & Gas, Telecommunications, RF and Microwave products, Railroad and Rail Systems, Data Interfacing & Measurement, Semiconductor Test, Energy, and Financial software. (http://www.aleconsultants.com)

**Sysacom** is an engineering firm that specializes in custom electronic circuits and systems design. They can develop the architecture and complete system designs, develop layouts, printed circuits, software and manufacture prototypes and experience with high performance circuits (VHDL) for high speed logic, audio, video and acoustic signal processing, engine controller, machine-to-machine. (www.sysacom.com)

<u>GM Systems</u> is a consulting company involved in project management, microelectronic marketing, sales, design, supply chain, manufacturing and assembly delivering innovative, customized electronic systems, semiconductor components, and RF solutions to a global base of leading OEMs

#### **EQUIPMENT & TOOLS**

Midarome also sells test equipment (handlers & testers) for discrete semiconductors and analog/mixed-signal devices, as well as hard-to-find components. (http://www.midarome.com)

Micro Printing Systems is the worldwide manufacturer and supplier of the MPS screen printers, Models TF100 and SP1500, to the hybrid, ceramic, micro-electronic and PC solder paste industries. & Squeegee materials. (http://www.mps-intl.com)

Micro-Coat Technologies provides specialized adhesives, coatings equipment for UV exposure and dispensing applications

#### **MATERIALS**

Koartan Microelectronic Interconnect Materials manufactures standard and custom thick film pastes which include silver, gold, and copper conductors, resistors, NTC and PTC thermistors, multilayer, cross-over, and capacitor dielectrics, sealing glasses, BeO and aluminum-nitride compatible pastes, thin-print, etchable, and nickel platable conductors. As well as aluminum wire bondable conductors for high temperature electronics. (http://koartan.com)

Micro-Coat Technologies provides specialized adhesives, coatings and equipment for high-tech and high-reliability applications used in semiconductors, military, medical, aerospace, high temperature electronics, and solar products. The company's diverse offerings include UV, Thermal & Air Cure Coatings, and Adhesives for the Semiconductor and SMD/PCB Assembly (Die Attach, Lid Seal, and Board Coatings), Optoelectronics and LED's (Optical coatings). (http://www.m-coat.com/)

#### SUBSTRATES & PACKAGES

**Microcertec** specializes in the Precision Grinding of advanced design ceramics. Our unique expertise is to combine precision grinding of 3D ceramics, thin-film metalizing and laser micro machining to serve high-tech markets as photonics, electronics, aerospace, semiconductors, and analytical instrumentation. (<a href="http://www.microcertec.com/">http://www.microcertec.com/</a>)

**Kerdry** offers a wide variety of vacuum deposited thin films used in the Medical, Telecom, Military, and Aerospace Industries. (http://www.kerdry.com/english\_kerdry/

PNL INNOTECH Provides Glass and Ceramic-to-Metal hermetic components such as: Metal brazing to ceramics (Alumina, Zirconia, B4C, AlN, SiC, Si3N4), Glass-to-Titanium seals, Bakeable feedthroughs and connectors, Housing for Medical implants and U.H.V. viewports (Glass, Quartz, Sapphire, CaF2, BaF2) (http://www.microcertec.com/

Shanghai Kessen Ceramics Co., Ltd is an industrial ceramics and refractory materials manufacturer in China for years supplying oxide materials, nitride materials, carbon materials and other products. Our crucibles, tubes, rings, plates, balls and varied parts are used in varied industries as electricity, information, power, automobile, petrol, semiconductor, medical apparatus, electronic, and

hybrids. **Pressed Oxide Materials** Al2O3,ZrO2,MgO,SiO2,Y2O3,BeO, **Nitride Materials** Si3N4,BN,AlN **Carbide Materials** SiC,C,B4C (http://www.kscera.com)

Sentec is a high volume manufacturer of metalized ceramic substrates for Low (<1W) to High (10W) power applications. They provide DBC substrates utilizing thin-film technology for the LED industry. They currently supply products to the LED/ Optoelectronics, Automotive, Microwave, Semiconductor and Solar markets. Using Panasonic Process they manufacture High Accuracy LOW SHRINKAGE Multi-layer LTCC Substrates, Cu Slug Ceramic Substrate, Hermetic Ceramic Package (http://www.sentecee.com)

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