



# ES Components



A Franchised Distributor and  
DLA certified Semiconductor Manufacturer

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## Product Solutions for all High Reliability Markets:

World Class Vendors / Turn-key Legacy DMS Solutions / Best-in-class Service



### ESC MANUFACTURING:

#### DLA Certified MIL-PRF-38535

- Siliconix Asset Acquisition
  - Hermetic JFETs, MOSFETs
  - Hermetic Analog Switches
  - JTX, JTXV, JANS, /883B
  - ESC -2 flow and all SCD's
  - Thru-hole and SMT
- Custom Hirel Packaging to 19500 and 38535 equivalent
  - Extensive DMS Die stock
  - Support all SCD flows

### ESC ADDED VALUE SERVICES:

- COTS Up-screening
- SLDC sorting and traceability
- Tin/Lead (SnPb) lead finish
- Date Code re-certification
- QCI, Element Evaluation, and Lot Acceptance Testing (LAT)
- VMI (Vendor Managed Inventory)

### OBSOLESCENCE SOLUTIONS:

- Small Signal Zener Diode Die
- Analog / Mix Signal **ASIC's** including Rad Hard, Analog, and Bipolar logic functions



### Aerospace and Defense

- Dale & Duluth
- Electro-Films (EFI)
- Gen Semi
- IR Divested
- Optoelectronics
- Semiconductors
- Sfernice
- Siliconix
- Sprague
- Vishay Thin-Film
- Vitramon



### MEMS Timing Products

OCXO – TCXO – VCXO  
XO – DCXO – VCTCXO

Mil Temp / Auto / Industrial  
**MEMS for Hirel Applications**

Dynamic Performance and  
Environmental Immunity

**ENDURA** ruggedized solutions  
with single lot date code

**EMERALD** robust OCXO's

**COTS Military upscreening to  
MIL-PRF-55310 equivalent**

Alternative to:  
**Quartz Products**



**JAN certified Diodes, Mosfets,  
Transistors, SCR's**

JANTX / TXV / JANS / JANSR  
JANHC / KC / KCR Bare Die

**Rad Hard Mosfets in stock**

**Analog & Mixed Signal ASICs:**

- **Rad Hard** and non-Rad Hard
- PWM's, Reg, Ref, Op Amps,
- Low or NO NRE's / On Shore



### MICROCHIP

Aerospace and Defense

**Rad Hard  
Mosfets & IC's**



**Microsemi**



**Supertex**



Defense and Space Division



**Novacap MLCC's**



### **SENSITRON SEMICONDUCTOR**

**JANHC / JANKC Diode Die**

- Ultrafast Rectifiers
- Small Signal Diodes

**Mil/Aero grade Diode Die**

- 1.5W & 5W Power Zeners
- Power Rectifiers & Schottkys
- TVS Diodes and Die Stacks

### **SEMICOA**

**JAN Bipolar Transistors  
and Diodes**

- Rad Hard to 300KRads
- JANTX / V / S, JANSR / F
- JANHC / KC / KCR / F
- Rad Tolerant LEO devices

**LS Mtron**  
ULTRACAPACITORS



**AE Alpha Electronics**  
A VPG Brand

**POWERTRON**  
A VPG Brand

**VISHAY FOIL  
RESISTORS**  
A VPG Brand





**SINCE 1981!**  
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**ESC Certifications:**  
MIL-PRF-38535 Certified  
QSLD / JESD31  
ISO9001:2015  
AS9120:2016  
AS6081:2012 (Counterfeit Avoidance)  
ITAR Registered / GIDEP Member  
*Woman Owned Business Enterprise*

yellow field = DLA CERTIFIED

Actives

Passives

Good Ark Semiconductor  
LS Mitron  
Microchip: Micrel - Atmel - MSCC  
Nikkohm  
Semicoa  
Semikron  
Sendyne  
Sensitron ( Die only )  
Simple Chips Technology  
SiTime  
Skyworks DSD / Isolink  
Vishay EFI, Sfermice, VTF  
Vishay Dale / Duluth Hirel  
Vishay Diodes (Gen Semi)  
Vishay Optoelectronics  
Vishay - Siliconix  
Vishay - Sprague, Vitramon  
Vishay Precision Group  
VPT Components  
Zetex (Division of Diodes Inc)  
ESC Legacy Products

Category	Product Description	Good Ark	LS Mitron	Microchip	Nikkohm	Semicoa	Semikron	Sendyne	Sensitron	Simple Chips	SiTime	Skyworks	Vishay EFI	Vishay Dale	Vishay Diodes	Vishay Optoelectronics	Vishay - Siliconix	Vishay - Sprague	Vishay Precision	VPT	Zetex	ESC Legacy	
ASICS	Analog & Mixed Signal; <i>Rad Hard</i> , 200C; 1KV									RH												RH	
	Digital: Memories, Processors; <i>Rad Hard</i>			RH																			
Diodes	JANHC, JANKC1N Diodes																						
	High Voltage Diodes (1600V)																						
	Power Rectifiers & Schottky; PV Cell Bypass																						
	Power Zeners, TVS																						
	Small Signal Zener, Switching																						
High-Frequency RF/Microwave	Pin, Varactor, Limiter, Schottky Diodes																						
	LNA's, Custom RF Assemblies																						
	Medium Power RF Transistors																						
Integrated Circuits	Analog Switches <i>883 / 38535 versions</i>																						
	LDO's, Op-Amps, Comparators																						
	Memories, FPGAs, EEPROM, Flash			RH																			
	MOSFET Drivers																						
Mosfets and Transistors	JANHC, KC, KCR, KCF 2N Bipolar; <i>Rad Hard</i>																						
	MOSFETs to 650V; JFET's <i>JTXV now; JANS soon</i>																						
	<i>Rad Hard Mosfets available now!</i>			RH																			
Opto Devices	Optocouplers; Optoelectronics																						
Timing	MEM's alternatives to Crystal solutions																						
ESC Acquisition of the Siliconix Hermetic Semiconductor Portfolio : <i>DLA certified</i> JFET's, MOSFET's, ANALOG SWITCHES Hermetic Thru Hole, Surface Mount (new), and Bare Die; JANTXV now, JANS coming! See ESC Legacy Brochure																							
Capacitors	CDR, MIL, DSCC, Hirel MLCC's																						
	MIL-PRF-123 PME MLCCs (12 week Delivery!)																						
	Extended Range PME 123 Equivalents																						
	Wire Bondable MOS / Silicon																						
	Tantalum Capacitors																						
	ULTRACAPACITORS (3KF+) caps / modules / cells																						
High Frequency RF/Microwave	Attenuators (1db steps to 10db), Switches																						
	HiFreq / HiQ MLCC's; 200C; ATC alternatives;																						
	Wire Bondable MOS CAPS; Spiral Inductors																						
Inductors	Thin Film Substrates; side wall devices																						
	Wire Bondable Spiral Inductors																						
	Hirel Power Inductors (ILHP / ILHM)																						
	Custom Space Grade Magnetics (ITAR)																						
Resistors	Calibration Standards																						
	Current Sensing, Shunt, IGBR's																						
	High Power / High Energy Load Dump Resistors																						
	Metal Foil Ultra Precision Resistors																						
	Thin Film Resistors, Networks																						
Substrates	RF & Power Substrates with localized heat sinks;																						
	Al + Au wirebond Mono-Metallic																						