ES Components An Authorized - Franchised Distributor

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ISO9001:2008 ● AS9120A Certified ● AS6081 Certified ● ITAR Registered

Space Products Solutions

MICROCHIP
Atmel
MICREL
PLL PhaseLink Corporation
Supertex
discera

VISHAY

- Dale & Duluth
- Electro-Films (EFI)
- Gen Semi
- Semiconductors
- Sfernice
- Siliconix
- Sprague
- Vishay Thin-Film
- Vitramon
- Others!

SKYWORKS
formerly: ALPHA
ISOLINK
Now: SKYWORKS DSD

SENSITRON SEMICONDUCTOR

SEMICOA

Alpha Electronics A VPG Brand
POWERTRON A VPG Brand
VISHAY FOIL RESISTORS A VPG Brand

NOVACAP

Applications

- Space systems
- Satellite systems
- Avionic systems
- Missiles applications
- Global positioning systems





nqa AS6081 Registered Counterfeit Parts Program

ITAR International Traffic in Arms Regulations Compliant

Bare Die and Components for all Hirel and Industrial Markets
QPL and DLA Certified Components ● JANHC and JANKC Element Evaluation ● COTS Upscreening

nqa AS9120 Registered ANAB ACCREDITED

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Space Products Selector Guide

Please see next page for notes.

	Product Family	Product Description	Package[1]	Microchip[2]	Semicoa	Sensitron	Skyworks[3]	Vishay[4]	VPG
Actives	Analog	Interface: FET Drivers, LDO's, Regulators	All	Microchip					
		Mixed Signal: A/D, DAC's, Mux, Voltage Ref's	All	Microchip					
		Timing Circuits, Oscillators	All	Microchip					
	ASIC's and Digital Logic	Rad HardASIC's & IC's, ECL Logic (Synergy)	All	Atmel / Micrel					
	Diodes (yellow field = DLA cert)	JANKC1N diodes (New)	Die			Sensitron			
		Rectifiers and Schottkys	Die			Sensitron		Vishay Semi	
		Power Zeners and TVS	Die			Sensitron			
		Small Signal Zeners, Switching Diodes	Die			Sensitron		Vishay Semi	
		Solar PV Cell Bypass Diode Die	SM/D					Vishay Semi	
	Memory/Microcontroller	Serial RAM, Flash, PIC's, Micros, Rad Hard	All	Uchip/Atmel					
	Optocouplers	>50 Standard and 500 Custom Products	All				Isolink		
	Programmables	FPGA's, EEPROM's; Rad Hard	All	Atmel					
	RF/Microwave	Diodes: PIN, Schottky, Limiter, Varactors	All				Skyworks DSD		
		LNA's, Custom RF Assemblies	All				Skyworks DSD		
		COTS upscreening	All				Skyworks DSD		
	Transistors/Mosfets (yellow field = DLA cert)	JANKCx2N, JANKCxR2N, JANKCxF2N; Rad Hard	Die		Semicoa				
		Mosfets (to 650V), JFET's	Die					Siliconix	
Passive	Capacitors (yellow field = DLA cert)	MIL PRF 123 (PME) 12 week leadtime! (New)	SM/D					Vitramon	
		Ext Range MIL PRF 123 equivalent (PME)	SM/D					Vitramon	
		Wire Bondable Si Caps	Die					Electrofilms	
		Tantalums	SM/D					Sprague	
	Magnetics[5] (Duluth is ITAR registered)	Inductors, Toroids, Transformers	All					Dale Duluth	
		coming: Space Grade IHLP Power Inductors!	All					Dale Duluth	
		Custom Magnetics for Space Applications	All					Dale Duluth	
	Resistors	Metal Foil Ultraprecision	All						VPG
		Current Sense and Power Resistors	All					EFI / Sfernice	VPG
		Thin Film Resistors and Networks	All					EFI / Sfernice	
	RF/Microwave	Attenuators, Switches, Varactors	All				Skyworks DSD		
		Wire Bondable (thin) Si / MOS Caps	Die				Skyworks DSD		
		RF Caps and Resistors, Thin Film	All					Electrofilms	
		VJ HiFreq MLCC's (ATC Alternatives)	SM/D					Vitramon	
		Quad HiFreq MLCC's (ATC Alternatives)	SM/D					Vitramon	
	Substrates[6]	Thin film; Power and RF Applications	n/a					Electrofilms	

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Notes:

1. All = Die, Surface Mount, and Through Hole; SM/D = Surface Mount (Solder or Epoxy attach); Die = Probed, Inspected die for Chip and Wire or Chip On Board applications.
2. MICROCHIP brands include: ATMEL, MICREL, MICROCHIP, SUPERTEX, others
3. SKYWORKS (formerly ALPHA) now supports the MIL/AERO Market via Skyworks Defense & Space Division (DSD), located in Milpitas CA, and now includes the Isolink brand of Hirel Optocouplers.
4. VISHAY brands include: DALE - ELECTROFILMS (EFI) - GEN SEMI - IR DIVESTED SEMI's - SFERNICE - SILICONIX - SPRAGUE - VITRAMON - VTF (Vishay Thin Film), others.
5. VISHAY DALE DULUTH is ITAR Registered and the Vishay Center of Excellence for Space Grade Magnetic Components and Solutions.
6. EFI SUBSTRATES provide best-in-class gold via's, offer localized Cu heat sinks, and are available with Al and Au wire bond landing areas on the same substrate = mono-metallic interface
7. Support Class K Element Evaluation per MIL PRF 38534 for all non-JAN products listed; also support Custom LAT requirements and all Customer SCD's.

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About ES Components

ES Components has been in business for over 34 years. We are a Franchised Distributor and Stocking Technical Sales Representative.

We provide precision electronics component solutions for the energy, medical, aerospace, and military markets.

Manufacturers the world over depend on us for the products and services they need to design, develop, and manufacture some of the most leading edge products in the world.

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Contact ES Components today for more info.

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