



ES Components

Bare Die / SMT Distribution

Committed To
Discrete & Passive Components



Innovative Solutions

Diodes - Transistors
MOSFETS - JFETS- Optoelectronics
Resistors - Capacitors - Inductors

Active DIE and Epoxy Mountable Components for Hybrid and MCM Applications

Bi-Polar Transistors / MOSFETS, JFETS

Rad Hard, Military/Aerospace, Commercial
Low Voltage, High Voltage, Small Signal JFETS

IC's

MOSFET Drivers, LDO Regulators, OP Amps, Highbandwidth ECL

Diodes

Switching, Zener, Schottky Power, Military Qualified and Up Screened

Resistors

Thin Film, Thick Film, Precision Foil, Wire Bondable and SMT, Military / Space / High Temp Qualified

Capacitors

Ceramic Multilayer, Tantalum, High Frequency, MIL-PRF-123 Qualified

Inductors

Power, SMT, Conical, Custom, Military Qualified

RF / High Frequency Products

Caps, Silicon MIS Caps, Attenuators, Limiter Diodes, PIN Diodes, PIN Beamlead Diodes
Varactor Diodes, Schottky Silicon and GaAS Chips, Schottky 0201 SMT Devices, RF Switches

DMSMS

Large Inventory of Obsolete / Hard to Find Die

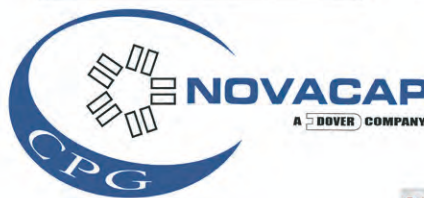
"OTSI" Off The Shelf Inventory / Ship From Stock In 24 Hours



ALL VISHAY PRODUCTS

Including:

- BC Components
- Dale
- Electro-Films
- Semiconductors
- Sfernice
- Siliconix
- Sprague
- Thin-Film
- Vitramon



 +  = **ES Components Exclusive Diodes**

- Off-The-Shelf Alternatives
- High Quality - High Reliability
- Automotive Grade / MIL Upscreen
- 600 Generic Types and Growing
- Reasonably Priced

www.escomponents.com



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**Bare Die For Hybrid and Multi Chip Module Applications Wire Bondable, Epoxy Attachable
MIL-PRF-38534/38535/19500 E.E. and LAT To Class H & K Available**

Analog and High Bandwidth IC's

MICREL

ECL Alternatives (10/100E, EL, LVEP)
FET Drivers (MICxxxx) / LDO (Low Drop Out) Regulators
Obsolete "LMxxx" Alternatives
Operational Amplifiers / Voltage Regulators

SILICONIX

Analog Switches (Siliconix DGxxx)

Bi-Polar Transistors

SEMICOA

Bi-Polar Transistors, Rad Hard
Mil/Aerospace, Commercial

MOSFETS

SILICONIX (and IR Divested) / SEMICOA

Low Voltage/High Voltage Power MOSFET's (To 1000V)
JFETS (Limited to On-Hand Inventory)
Commercial, Mil/Aerospace, Rad Hard

RF / High Frequency Products

SKYWORKS

Silicon MIS Chip Capacitors	Fixed Attenuator Pads
Limiter Chip Diodes	PIN Chip Diodes
PIN Beamlead Diodes	Varactor Chip Diodes
Schottky Silicon Chip Diodes	RF Switches In Die Form
Schottky GaAs Flip Chips (Up To 100 GHz)	
Schottky 0201 SMT Device (Up To 100GHz)	

Capacitor Chips, Ceramic

NOVACAP, VISHAY VITRAMON

MLCC With Palladium Silver Terminations
NPO, X7R, BX, OMD, HIQ
"Arc-Guard" X7R High Voltage Chips
High Temp (+200°C) Ceramic Chip Caps
Magnetic Free SMT, Silver Palladium Terminations
Polymer Terminated Chip Caps
Cer-F High Frequency Filtering Caps
CDR MIL-PRF-55681

Capacitor Chips, Tantalum

VISHAY: SPRAGUE, TANSITOR

Tantalum Chip Caps With Gold Terminations
195D, 594D, 595D, 695D Gold Plated
298D *Microtan*® With Gold Terminations
0402 / 0603 / 0805 Case Sizes
Now Available: 22uF / 0402 Size
T86 Hirel(MIL-PRF-55365) COTS *Tantamount*® SMT
Low ESR, Built-In Fuse, Tin/Lead Plating
High Temp (200°C) Tantalum Chip Caps
194D, 293D, CWR 06/11, MIL-PRF-55365

Inductors

VISHAY DALE

WSL/WSR Epoxy Attachable
High Frequency Inductors
Power Inductors (IHLP/IHLM)
Toroids, Chip Inductors

GOWANDA

Custom Inductors
Conical Inductors
MIL Qualified Inductors
High Frequency

Diodes, Power

SENSITRON, VISHAY SEMICONDUCTORS

Bondable and Solderable Metals, Including Gold
Rectifier 1N4001/6, 1N5806/11, 1N5811, MURCxxx
Schottky Diodes (1A - 150A / 15V - 200V)
1N5819, 1N5821, 1N5825
Thyristors and SCR's
TVS Diodes (to 5000W)
P4, P5, P6KE, 5KP, SMA/B/C Series
Zener Diodes (Power, 1W - 50W)
1N44xx, 1N49xx Families

Diodes, Small Signal

SENSITRON, VISHAY SEMICONDUCTORS (and IR Divested)

ESD Diodes
Hot Carrier (Schottky) Diodes, 1N5711
Switching Diodes
1N914, 1N4148, 1N4150, 1N6640, 1N6642
Zener Diodes (to 500mW)
1N746, 1N4099, 1N4617, 1N55xx Families and More

Resistor Chips, Thin Film

VISHAY: EFI, SFERNICE, VTF

20x20, 30x30 Wire Bondable
BCR, CTR, SFM NiChrome Chips
High Value SiChrome Chips
High Temp (+200°C) Chips & Wrap-Arounds
Custom Resistor Networks
MIL-PRF-55342 Gold Termination
Microwave Wire Bondable Chips

Resistor Chips, Thick Film

VISHAY: DALE, TECHNO, VTF

Low Value WSL/WSR Chips
Custom Thick Film Chips
CRHV High Voltage Thick Film Chips
MIL-PRF-55342 Gold Termination SMT

Custom Thin Film Products

VISHAY EFI

Custom Thin Film Substrates
High Conductivity Power Substrates
MOS/NMOS Thin Film Capacitors
Spiral Inductors, Fixed and Adjustable

Precision Foil Resistors

VISHAY PRECISION GROUP / ALPHA ELECTRONICS

Screening To Class "K"

Thermistors

VISHAY BC COMPONENTS

PTC / NTC