



One of the World's Largest Manufacturers of  
**Discrete Semiconductors and Passive Components**

# Vishay Dale Inductors Review of Select Products - 2009

Build **Vishay**  
into your **Design**

Vishay Dale Inductors

# Vishay Intertechnology – Inductor Division Manufacturing Sites

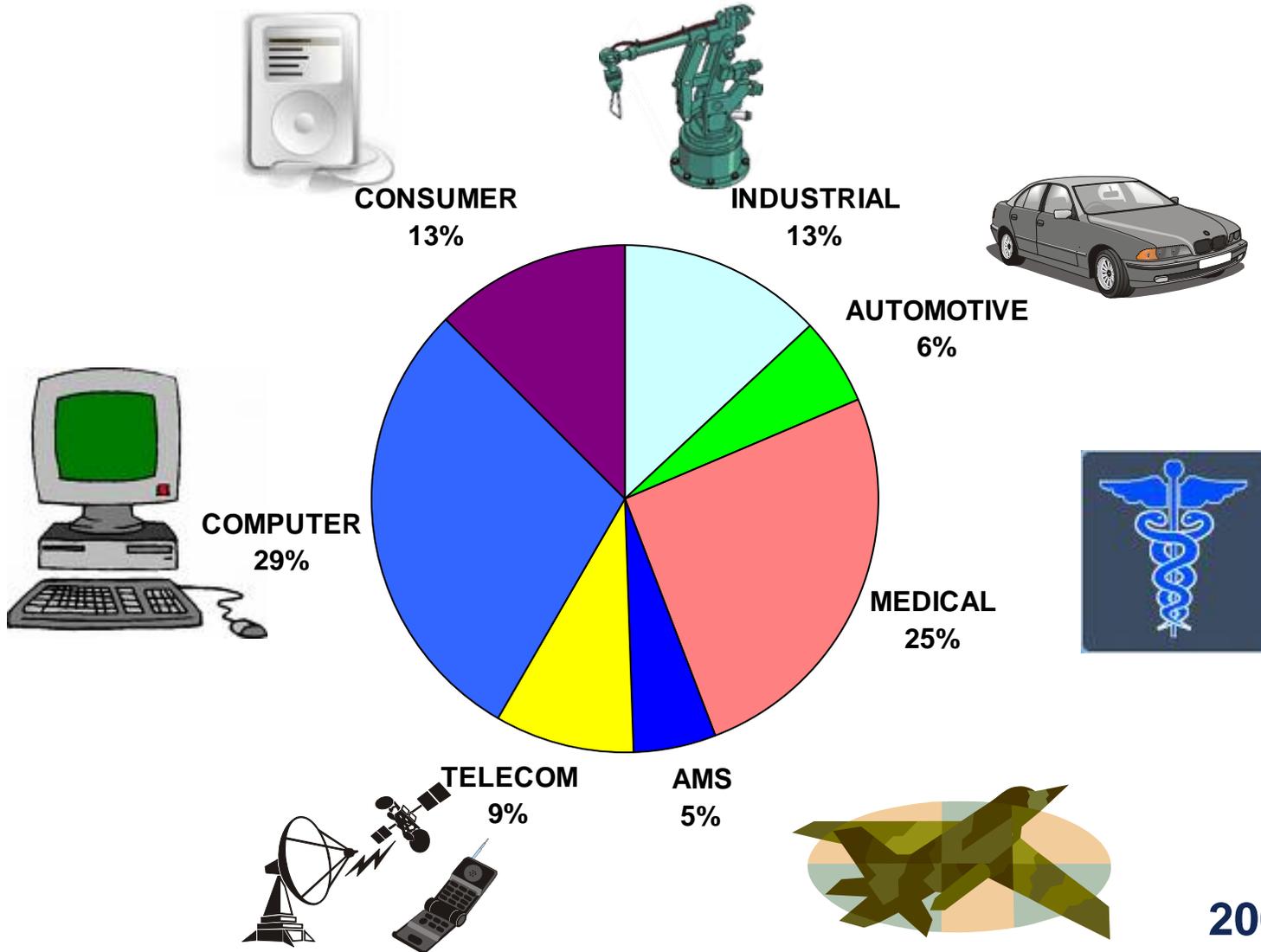


## QUALITY CERTIFICATIONS

- AMERICAS: QS-9000, ISO-9001, ISO-9002, ISO-14001 ISO/TS-16949, AQS-9000
- ISRAEL: QS-9000, ISO-9001, ISO-14001, ISO/TS-16949

Vishay Dale Inductors

# Where We Sell our Products



2008 Data

## Vishay Dale Inductors



### • Inductors (Two Terminals)

- SMD Inductors
- Leaded Inductors
- Flux Antennas

### • Transformers (3 or More Terminals)

- SMD Transformers
- Leaded Transformers
- Aerospace and Military
- Medical

### • Impedance Beads

- Single
- Arrays

### • Frequency Control

- SMD and Leaded Crystals and Oscillators

### • Connectors

- Standard Connectors
- Custom Connectors

# New Products



## • IHLP and IFLP Power Inductors

- Widest Range of Size and Values
- New 6767 Size Now Available
- Current Rating Up to 100 A
- Values Up to 100  $\mu$ H

## • IHTH Power Inductor

- 155+ deg C Operation
- Excellent Saturation
- Up to 2X Size Reduction over Toroids and Other Magnetic Shapes

## • TJ5-HR and TJ3-HT 200 deg C Operation

- Standard Toroid Series
- High-Temperature
- Values Up to 470  $\mu$ H
- Rated Current Up to 30 A
- Horizontal and Vertical Mount Available

## Power Inductor Applications

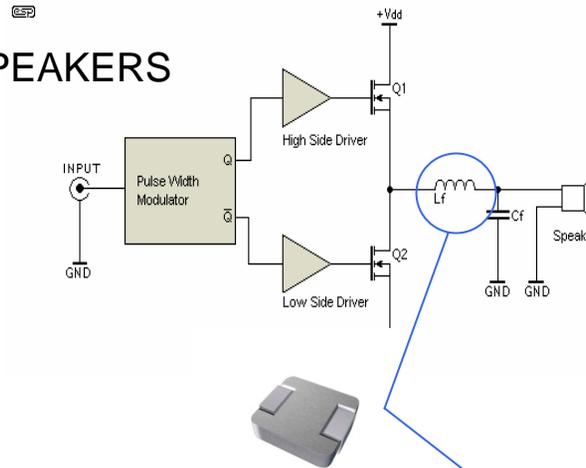
- DC/DC CONVERTERS – POWER SUPPLIES

- COMPUTERS – NOTEBOOKS, GRAPHICS, SERVERS



- CLASS “D” AMPLIFIERS

- LCD TVs AND PORTABLE MP3 SPEAKERS

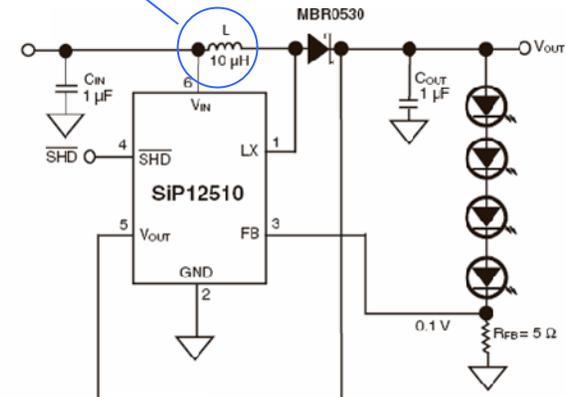
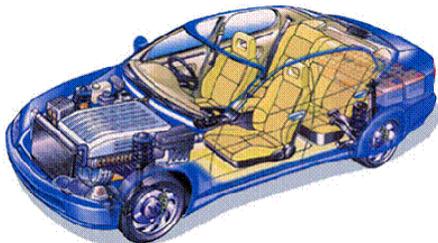


- LED DRIVER POWER

- DLP TVs
- LCD BACKLIGHTS

- AUTOMOTIVE

- DC/DC CONVERTERS
- FILTERS FOR NOISE SUPPRESSION
- HID LIGHTING
- MOTORS – HVAC, WIPER, POWER ACCESSORIES



## Main Products



### • Custom Magnetics

- Sizes up to 100VA
- Wire Sizes: #8 to #50 AWG
- Extensive Medical Design Experience
- Extensive Aerospace and Military Experience
- FAE Software to Aid in Design
- Low-Cost North American Manufacturing Site

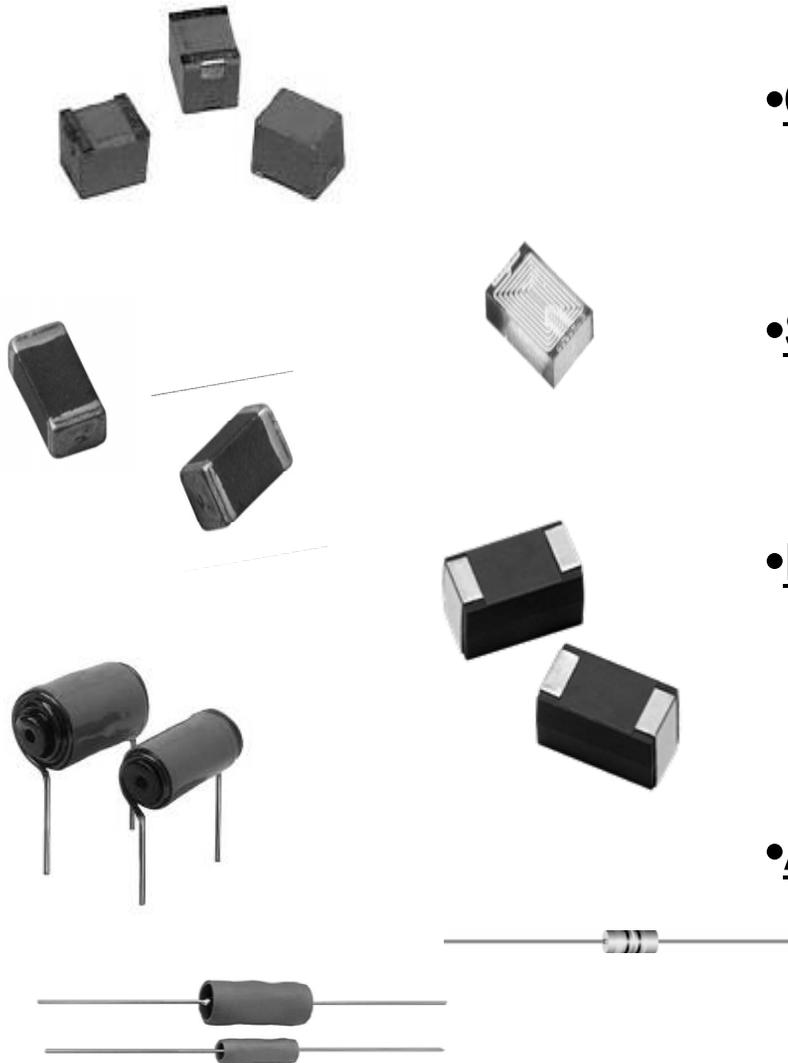


# Main Products

- Standard and Custom Connectors
  - Edgeboard
  - Rack and Panel
  - High-Reliability Military and Aerospace



# Main Products



## •Chip Inductors

- Wide Range of Sizes and Values
- Up to 2-GHz Operation

## •Shield Beads

- Many Sizes and Values Down to 0402
- Array and High Current

## •IHSM Power/RF Inductors

- Values to 18 mH
- Completely Encapsulated for High Reliability
- Compliant Leads for Shock and Thermal Stability

## •Axial Products

- Full Line of RF and Power Through-Hole Products
- Available in Pb-Free and Pb-Bearing Versions

## Featured Inductor Products

### New Sizes / Footprints Available in IHLP® Series

IHLP-2020AB / IHLP-2020BZ / IHLP-2020CZ  
IHLP-6767CZ / IHLP-6767DZ / IHLP-6767GZ

#### FEATURES

- Shielded construction
- Frequency range: up to 5 MHz
- Excellent inductance and saturation stability versus temperature
- Standard inductance values: up to 22  $\mu$ H
- Current rating: up to 100 A
- 100 % lead (Pb)-free and RoHS-compliant

#### APPLICATIONS

- Automotive
- PDA / notebook / desktop / server applications
- Low-profile, high-current power supplies
- DC/DC converters



### High-Current, High-Temperature Toroidal Inductors

TJ3-HT / TJ5-HT

#### FEATURES

- High temperature rating of 200 °C with no aging
- Toroid design reduces EMI
- Vertical and horizontal mounting options
- 100 % lead (Pb)-free and RoHS-compliant

#### APPLICATIONS

- Switching power supplies
- EMI / RFI filtering
- Output chokes
- Automotive
- Deep-well drilling



### High-Current, High-Temperature Inductors

IHTH-0750 / IHTH-1125

#### FEATURES

- +155 °C operation
- Shielded construction
- Frequency range: up to 1 MHz
- Handles high transient current spikes without saturation
- 100 % lead (Pb)-free and RoHS-compliant

#### APPLICATIONS

- Automotive
- Deep-well drilling
- Desktop / server applications
- Line filters



## Vishay Dale Inductors



- Visit [www.vishay.com/inductors](http://www.vishay.com/inductors) for more information