



RXT60000 SERIES PACKAGE A3



RoHS
COMPLIANT

+200°C

| Inductance Range (mH) | DCR Max (Ohms) | Current Rating (mA) |
|-----------------------|----------------|---------------------|
| 0.025 to 10 | 0.093 to 1560 | 80 to 33.75 |

ELECTRICAL SPECIFICATIONS

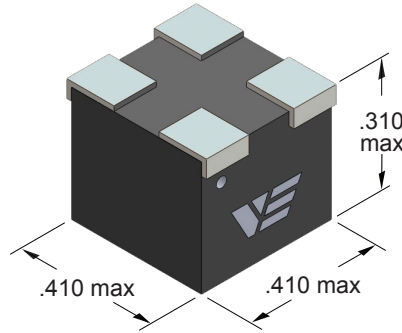
- **Operating Temperature:** -40°C to +200°C
- **Storage Temperature:** -45°C to +205°C
- **Temperature Rise:** < 30°C
- **Inductance at rated DC:** ≥ 70% of initial
- **Dielectric Withstanding Voltage:** 100 V_{RMS}
- **Different electrical values available upon request**

FEATURES

- **Ideal** for geophysical applications in environments ≤ 200°C
- **Compact**, low profile, ideal for automatic placement
- **Terminations:** RoHS
- **Welded Internal Connections** - no reflow risk
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Other RoHS compliant solder alloy coatings available**
- **Multiple Configurations:** Series, parallel, transformer, dual inductor

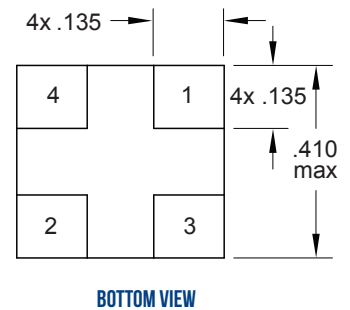
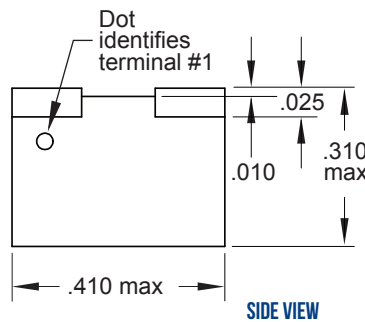
APPLICATIONS

- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- Common mode chokes
- SEPIC converters
- Isolation transformers

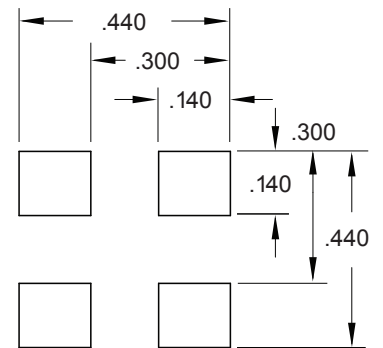


THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

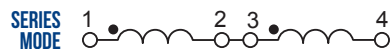


| IN | MM |
|-------|-------|
| 0.440 | 11.18 |
| 0.410 | 10.41 |
| 0.310 | 7.87 |
| 0.300 | 7.62 |
| 0.140 | 3.56 |
| 0.135 | 3.43 |
| 0.025 | 0.64 |
| 0.010 | 0.25 |

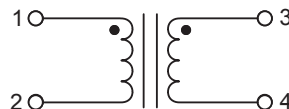


RECOMMENDED MOUNTING PAD CIRCUIT SIDE

TYPICAL USER CONNECTIONS



SCHEMATIC



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+200°C

DATA TABLE

| Vanguard P/N | Series Inductance (mH ±10%) | Series Rated DC Current (mA) | Series DCR max (Ohms) | Parallel Inductance (mH ±10%) | Parallel Rated DC Current (mA) | Parallel DCR max (Ohms) | Package A- |
|--------------|-----------------------------|------------------------------|-----------------------|-------------------------------|--------------------------------|-------------------------|------------|
| RXT60003 | 0.100 | 780 | 0.37 | 0.025 | 1560 | 0.093 | 3 |
| RXT60007 | 0.250 | 530 | 0.82 | 0.062 | 1060 | 0.205 | 3 |
| RXT60011 | 0.500 | 380 | 1.62 | 0.125 | 760 | 0.405 | 3 |
| RXT60015 | 0.750 | 310 | 2.50 | 0.187 | 620 | 0.625 | 3 |
| RXT60019 | 1.000 | 270 | 3.37 | 0.250 | 540 | 0.843 | 3 |
| RXT60023 | 2.000 | 190 | 6.75 | 0.500 | 380 | 1.690 | 3 |
| RXT60027 | 3.000 | 160 | 10.12 | 0.750 | 320 | 2.530 | 3 |
| RXT60031 | 5.000 | 120 | 16.87 | 1.250 | 240 | 4.220 | 3 |
| RXT60035 | 7.500 | 100 | 25.37 | 1.875 | 200 | 6.350 | 3 |
| RXT60039 | 10.000 | 80 | 33.75 | 2.500 | 160 | 8.440 | 3 |

Inductance measured at 10 kHz, 0.1 V_{RMS}

CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types

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