



# 62300 SERIES PACKAGE A3



MIL-PRF-27

| Inductance Range (uH) | DCR max (Ohms) | Current Rating (mA) |
|-----------------------|----------------|---------------------|
| 15 to 3000            | .035 to 7.72   | 140 to 2000         |

## ELECTRICAL SPECIFICATIONS

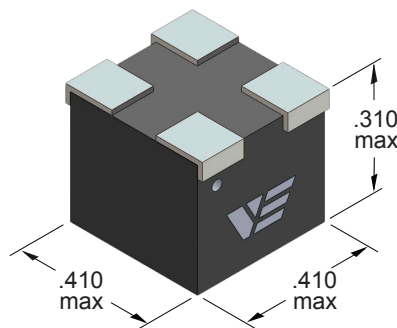
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +135°C
- **Temperature Rise @ 90°C:** < 30°C
- **Inductance at rated DC:** ≥ 70% of initial
- **Dielectric Withstanding Voltage:** 100 V<sub>RMS</sub>
- **Overload Current:** 1.5 times rated current
- **Different electrical values available upon request**

## FEATURES

- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-PRF-27** specifications
- **Terminations:** Tin-lead
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Self Shielding**
- **Other termination finishes available**

## APPLICATIONS

- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- SEPIC converters

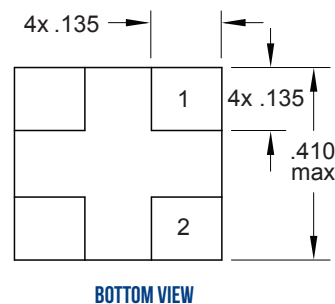
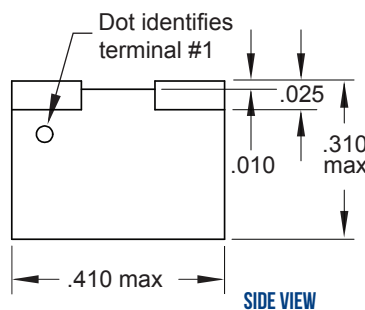


ACTUAL SIZE

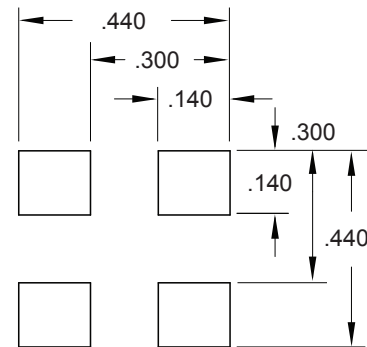


THRU-HOLE &  
GULL-WING PACKAGES  
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

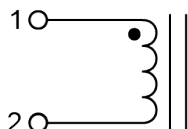


| IN    | MM    |
|-------|-------|
| 0.440 | 11.18 |
| 0.410 | 10.41 |
| 0.310 | 7.87  |
| 0.300 | 7.62  |
| 0.140 | 3.56  |
| 0.135 | 3.43  |
| 0.025 | 0.64  |
| 0.010 | 0.25  |



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

SCHEMATIC



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DATA TABLE

| Vanguard P/N | Inductance (uH ±10%) | DCR max (Ohms) | Rated DC Current (mA) |
|--------------|----------------------|----------------|-----------------------|
| 62301        | 15                   | 0.035          | 2000                  |
| 62302        | 18                   | 0.047          | 1900                  |
| 62303        | 20                   | 0.051          | 1700                  |
| 62304        | 22                   | 0.055          | 1600                  |
| 62305        | 25                   | 0.064          | 1550                  |
| 62306        | 27                   | 0.074          | 1500                  |
| 62307        | 30                   | 0.078          | 1420                  |
| 62308        | 33                   | 0.083          | 1350                  |
| 62309        | 39                   | 0.088          | 1300                  |
| 62310        | 47                   | 0.119          | 1100                  |
| 62311        | 50                   | 0.125          | 1050                  |
| 62312        | 56                   | 0.131          | 1000                  |
| 62313        | 68                   | 0.188          | 950                   |
| 62314        | 75                   | 0.203          | 920                   |
| 62315        | 82                   | 0.218          | 890                   |
| 62316        | 100                  | 0.284          | 800                   |
| 62317        | 120                  | 0.312          | 730                   |
| 62318        | 150                  | 0.429          | 650                   |
| 62319        | 180                  | 0.478          | 590                   |
| 62320        | 200                  | 0.501          | 565                   |

Inductance measured at 10 kHz, 0.1 V<sub>RMS</sub>

| Vanguard P/N | Inductance (uH ±10%) | DCR max (Ohms) | Rated DC Current (mA) |
|--------------|----------------------|----------------|-----------------------|
| 62321        | 220                  | 0.524          | 540                   |
| 62322        | 250                  | 0.630          | 510                   |
| 62323        | 270                  | 0.737          | 480                   |
| 62324        | 300                  | 0.780          | 450                   |
| 62325        | 330                  | 0.824          | 430                   |
| 62326        | 350                  | 0.977          | 415                   |
| 62327        | 390                  | 1.13           | 400                   |
| 62328        | 470                  | 1.25           | 360                   |
| 62329        | 500                  | 1.30           | 340                   |
| 62330        | 560                  | 1.35           | 330                   |
| 62331        | 680                  | 1.88           | 300                   |
| 62332        | 750                  | 1.97           | 290                   |
| 62333        | 820                  | 2.07           | 280                   |
| 62334        | 1000                 | 2.88           | 250                   |
| 62335        | 1200                 | 3.15           | 230                   |
| 62336        | 1500                 | 4.35           | 200                   |
| 62337        | 1800                 | 4.74           | 180                   |
| 62338        | 2000                 | 5.69           | 175                   |
| 62339        | 2200                 | 6.64           | 170                   |
| 62340        | 2700                 | 7.38           | 150                   |
| 62341        | 3000                 | 7.72           | 140                   |

CUSTOM DESIGNS & MODIFICATIONS:

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

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