



S60000 SERIES

PACKAGE A2 REF: M27/372



ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

Inductance Range (mH)	DCR max (Ohms)	Current Rating (mA)
0.025 to 10.000	0.240 to 61.00	50 to 1200

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +130°C
- **Storage Temperature:** -60°C to +135°C
- **Temperature Rise @ 90°C:** < 35°C
- **Inductance at rated DC:** ≥ 70% of initial
- **Dielectric Withstanding Voltage:** 100 V_{RMS}
- Thermally stable inductance within 2% over operating temperature
- **Low Outgassing:** TML <1%
- **Different electrical values available upon request**

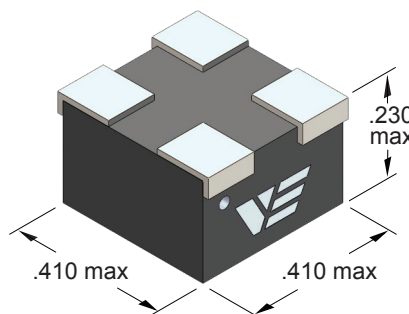
FEATURES

- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-STD-981** specifications
- **Terminations:** Tin-lead
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Multiple Configurations:** series, parallel, transformer, dual inductor
- **Other termination finishes available**

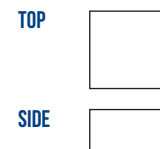
APPLICATIONS

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

Add "-S" suffix for Class S Screening
 Add "-B" suffix for Class B Screening

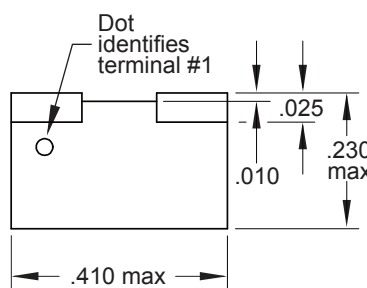


ACTUAL SIZE

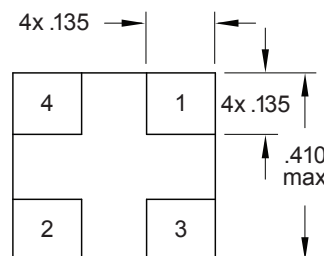


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

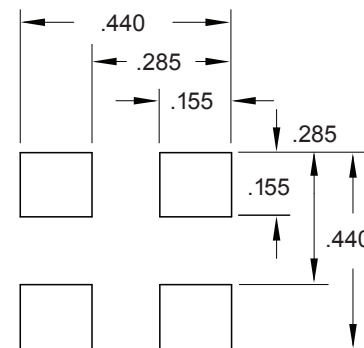


SIDE VIEW



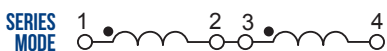
BOTTOM VIEW

IN	MM
0.440	11.18
0.410	10.41
0.285	7.24
0.230	5.84
0.155	3.94
0.135	3.43
0.025	0.64
0.010	0.25

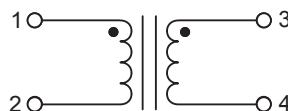


RECOMMENDED MOUNTING PAD CIRCUIT SIDE

TYPICAL USER CONNECTIONS



SCHEMATIC



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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)	Size Code
S60002	0.100	600	0.96	0.025	1200	0.240	2
S60006	0.250	400	1.98	0.062	800	0.495	2
S60010	0.500	300	3.35	0.125	600	0.838	2
S60014	0.750	250	5.20	0.187	500	1.300	2
S60018	1.000	200	6.90	0.250	400	1.725	2
S60022	2.000	150	12.20	0.500	300	3.050	2
S60026 ♦	3.000	120	18.30	0.750	240	4.580	2
S60030 ♦	5.000	90	30.40	1.250	180	7.600	2
S60034 ♦	7.500	70	46.00	1.875	140	11.500	2
S60038 ♦	10.000	50	61.00	2.500	100	15.250	2

Inductance measured at 10 kHz, 0.1 V_{RMS}

♦ Class "S" is available by issuing a waiver to MIL-STD-981 wire size requirements

CUSTOM DESIGNS & MODIFICATIONS:

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

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