



60000 SERIES

PACKAGE A2 QPL: M27/372



MIL-PRF-27

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:** $\geq 70\%$ of initial
- **Dielectric Withstanding Voltage:** 100 V_{RMS}
- **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**
- **Magnetically Shielded**
- **Multiple Configurations:** Series, parallel, transformer, dual inductor
- **Other termination finishes available**

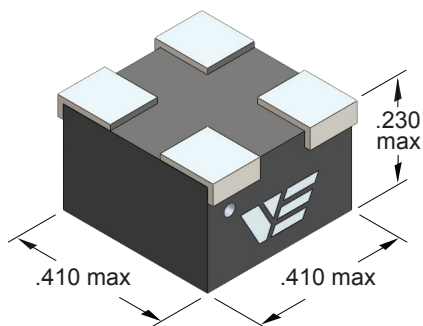
APPLICATIONS

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

ORDERING INFORMATION

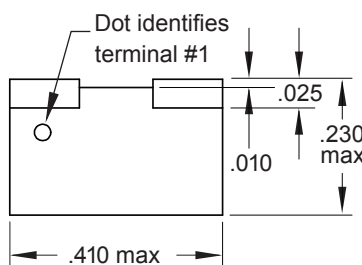
- Order to Mil-spec part number or VE part number

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

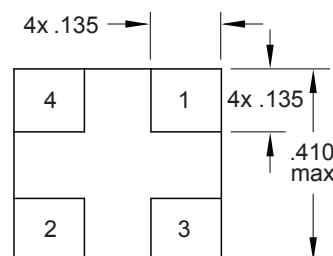


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

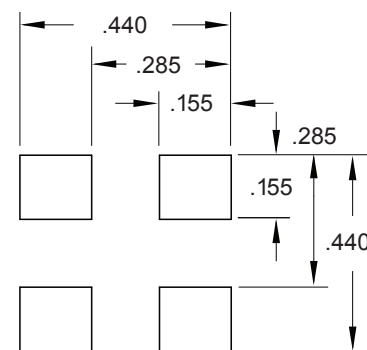


SIDE VIEW



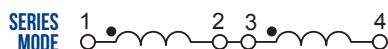
BOTTOM VIEW

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

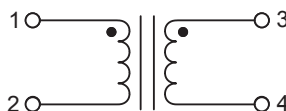


RECOMMENDED MOUNTING PAD CIRCUIT SIDE

TYPICAL USER CONNECTIONS



SCHEMATIC



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DATA TABLE

Vanguard P/N	QPL P/N M27/372	Series Inductance (mH $\pm 10\%$)	Series Rated DC Current (mA)	Series DCR max (Ohms)	Parallel Inductance (mH $\pm 10\%$)	Parallel Rated DC Current (mA)	Parallel DCR max (Ohms)
60002	-002	0.100	600	0.96	0.025	1200	0.240
60006	-006	0.250	400	1.98	0.062	800	0.495
60010	-010	0.500	300	3.35	0.125	600	0.838
60014	-014	0.750	250	5.20	0.187	500	1.300
60018	-018	1.000	200	6.90	0.250	400	1.725
60022	-022	2.000	150	12.20	0.500	300	3.050
60026	-026	3.000	120	18.30	0.750	240	4.580
60030	-030	5.000	90	30.40	1.250	180	7.600
60034	-034	7.500	70	46.00	1.875	140	11.500
60038	-038	10.000	50	61.00	2.500	100	15.250

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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