



60000 SERIES

PACKAGE A3 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**

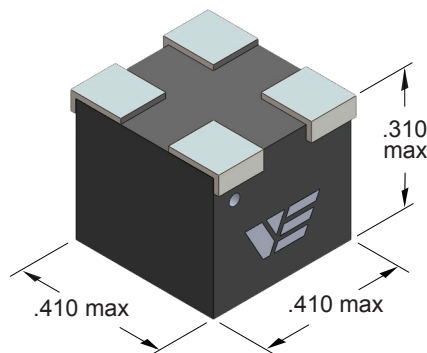
APPLICATIONS

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

ORDERING INFORMATION

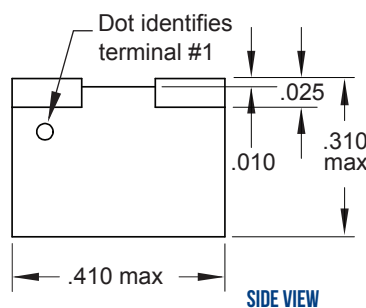
- Order to Mil-spec part number or VE part number

Inductance Range (mH)	DCR max (Ohms)	Current Rating (mA)
0.025 to 10.000	0.093 to 33.75	80 to 1560

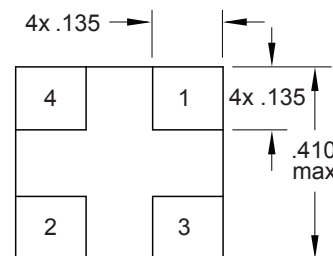


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

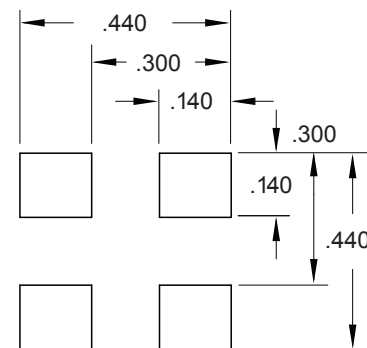


SIDE VIEW



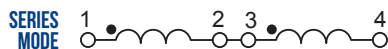
BOTTOM VIEW

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

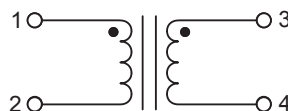


RECOMMENDED MOUNTING PAD CIRCUIT SIDE

TYPICAL USER CONNECTIONS



SCHEMATIC



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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)
60003	-003	0.100	780	0.37	0.025	1560	0.093
60007	-007	0.250	530	0.82	0.062	1060	0.205
60011	-011	0.500	380	1.62	0.125	760	0.405
60015	-015	0.750	310	2.50	0.187	620	0.625
60019	-019	1.000	270	3.37	0.250	540	0.843
60023	-023	2.000	190	6.75	0.500	380	1.690
60027	-027	3.000	160	10.12	0.750	320	2.530
60031	-031	5.000	120	16.87	1.250	240	4.220
60035	-035	7.500	100	25.37	1.875	200	6.350
60039	-039	10.000	80	33.75	2.500	160	8.440

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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