



## 60000 SERIES

### PACKAGE A1 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:** < 30°C
- **Inductance at rated DC:** < 30%
- **Dielectric Withstanding Voltage:** 100 V<sub>RMS</sub>
- **Different electrical values available upon request**

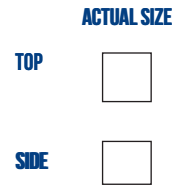
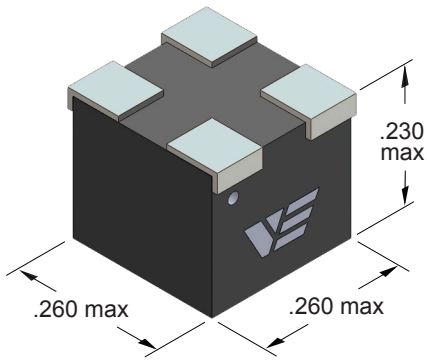
### FEATURES

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

### APPLICATIONS

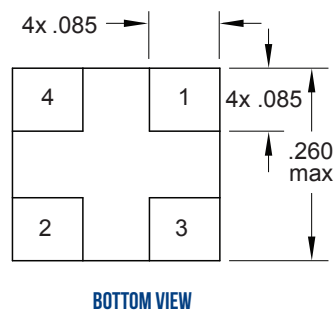
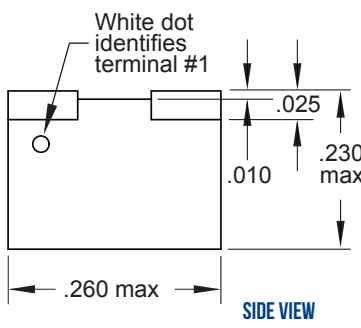
- Filter inductors
- Ripple suppressors
- Common mode chokes
- Isolation transformers
- Step up transformers
- Step down transformers
- Power supplies
- DC/DC converters
- SEPIC converters

Inductance Range (mH)	DCR max (Ohms)	Current Rating (mA)
0.025 to 10.000	0.400 to 128.00	20 to 600

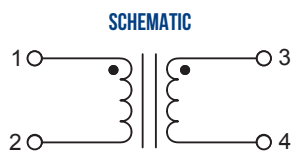
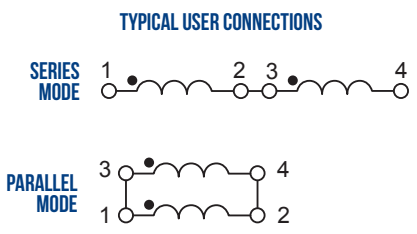
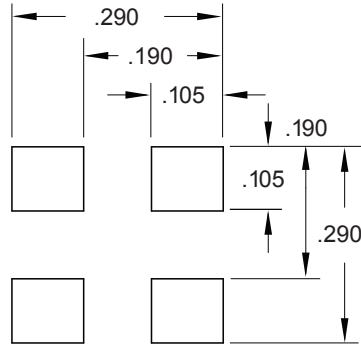


**THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE**

**MARKINGS: LASER ETCH OR INK**



IN	MM
0.290	7.37
0.260	6.60
0.230	5.84
0.190	4.83
0.105	2.67
0.085	2.16
0.025	0.64
0.010	0.25



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PACKAGE A1





DATA TABLE

Vanguard P/N	QPL P/N M27/372	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)
60001	-001	0.100	300	1.60	0.025	600	0.400
60005	-005	0.250	200	3.11	0.062	400	0.778
60009	-009	0.500	150	6.14	0.125	300	1.535
60013	-013	0.750	120	9.45	0.187	240	2.363
60017	-017	1.000	95	12.85	0.250	190	3.213
60021	-021	2.000	75	25.60	0.500	150	6.400
60025	-025	3.000	60	38.40	0.750	120	9.600
60029	-029	5.000	45	64.00	1.250	90	16.000
60033	-033	7.500	30	96.00	1.875	60	24.000
60037	-037	10.000	20	128.00	2.500	40	32.000

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

**CUSTOM DESIGNS & MODIFICATIONS:**

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

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PACKAGE A1

