

MILITARY PRODUCTS

Power Inductors

Package A4: 140 to 2700 mA, .025 to 10,000 mH

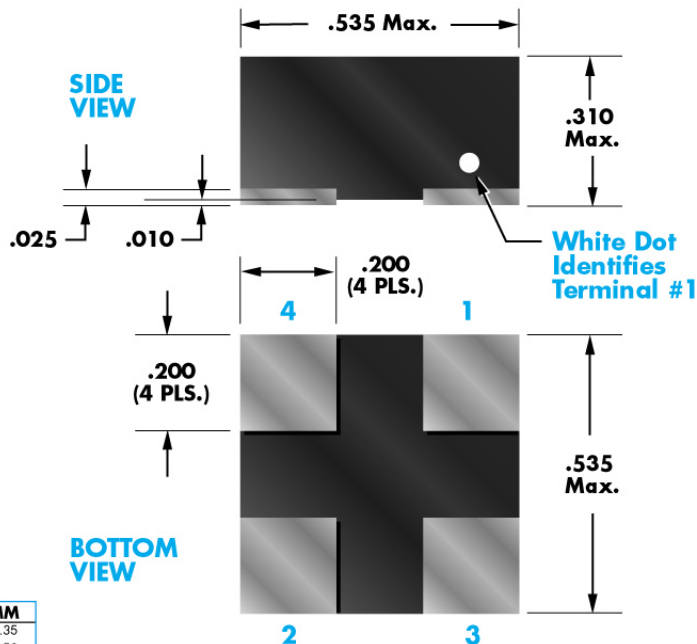
Qualified to DESC Dwg. No. 93027

(Surface Mount Version of Mil-T-27/356)

ELECTRICAL SPECIFICATIONS

93027 Dash Number	VE Part Number	Series Inductance mH ±10%	Series Rated D.C. mA	Series D.C. RES Max.	Parallel Inductance mH ± 10%	Parallel Rated D.C. mA	Parallel D.C. RES. Max.	Size Code
-004	60004	0.100	1350	0.21	0.025	2700	0.053	4
-008	60008	0.250	930	0.41	0.062	1860	0.103	4
-012	60012	0.500	660	0.82	0.125	1320	0.205	4
-016	60016	0.750	540	1.25	0.187	1080	0.313	4
-020	60020	1.000	470	1.87	0.250	940	0.468	4
-024	60024	2.000	330	3.62	0.500	660	0.910	4
-028	60028	3.000	270	5.50	0.750	540	1.380	4
-032	60032	5.000	210	9.12	1.250	420	2.280	4
-036	60036	7.500	170	13.75	1.875	340	3.440	4
-040	60040	10.000	140	18.25	2.500	280	4.570	4

Inductance is measured at 0.1Vrms and 10kHz



IN	MM
0.565	14.35
0.535	13.59
0.345	7.76
0.220	5.59
0.200	5.08
0.135	3.43
0.085	2.16
0.025	0.64
0.010	0.26

CONVERSION

RECOMMENDED MOUNTING PAD

CIRCUIT SIDE

Actual Size (Top)



Actual Size (Side)



FEATURES

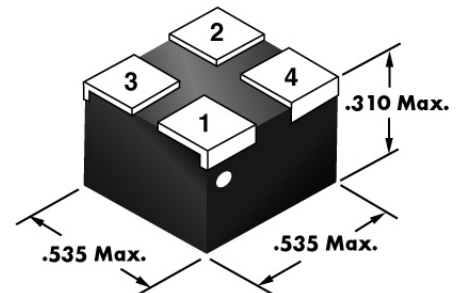
- Compact, low profile, surface mountable package.
- Leadless device, allowing for economy in packaging space.
- Terminations are tin-lead coated phosphor bronze, suitable for a variety of soldering techniques.
- Ideal for automatic placement.

CHARACTERISTICS

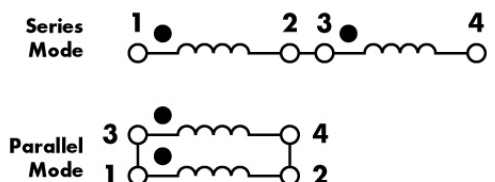
- -55 °C to +130 °C operating temperature.
- ±2% change in inductance over the operating temperature range.
- Temperature rise of less than 30 °C.
- Inductance drop of less than 30% with rated DC through inductor windings.
- Built to meet MIL-T-27 military specifications.
- Different values of inductance or turns ratio available on special order.
- Dielectric strength is 100 Vrms.

APPLICATIONS

- Filter inductors
- Ripple suppressors
- Common mode chokes
- Isolation transformers
- Step up transformers
- Step down transformers



TYPICAL USER CONNECTIONS



60,000 SERIES PACKAGE A4



VANGUARD ELECTRONICS
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