

MILITARY PRODUCTS

Power Inductors

Package A2: 50 to 1200 mA, .025 to 10,000 mH

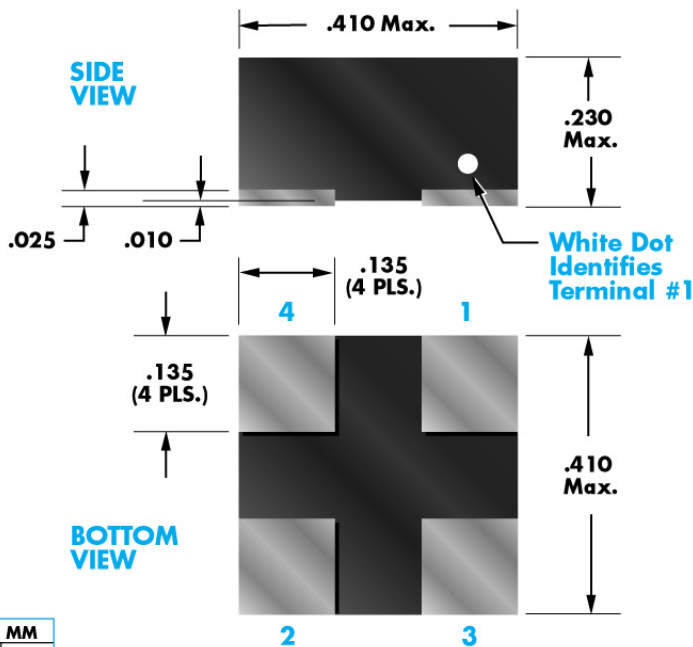
Qualified to DESC Dwg. No. 93027

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

ELECTRICAL SPECIFICATIONS

93027 Dash Number	VE Part Number	Series Inductance mH $\pm 10\%$	Series Rated D.C. mA	Series D.C. RES Max.	Parallel Inductance mH $\pm 10\%$	Parallel Rated D.C. mA	Parallel D.C. RES. Max.	SRF
-002	60002	0.100	600	0.96	0.025	1200	0.240	
-006	60006	0.250	400	1.98	0.062	800	0.495	
-010	60010	0.500	300	3.35	0.125	600	0.838	
-014	60014	0.750	250	5.20	0.187	500	1.300	
-018	60018	1.000	200	6.90	0.250	400	1.725	
-022	60022	2.000	150	12.20	0.500	300	3.050	
-026	60026	3.000	120	18.30	0.750	240	4.580	
-030	60030	5.000	90	30.40	1.250	180	7.600	
-034	60034	7.500	70	46.00	1.875	140	11.500	
-038	60038	10.000	50	61.00	2.500	100	15.250	

Inductance is measured at 0.1Vrms and 10kHz

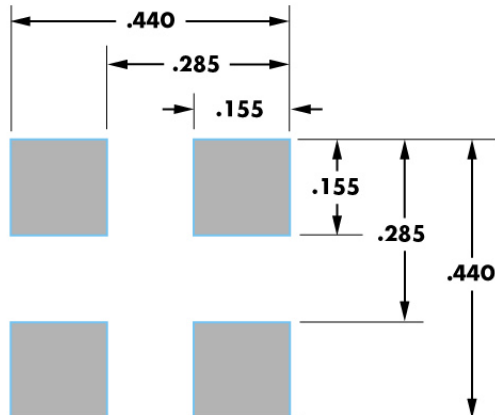


IN	MM
0.440	11.76
0.410	10.41
0.285	7.24
0.230	5.84
0.200	5.08
0.155	3.94
0.135	3.43
0.085	2.16
0.025	0.64
0.010	0.26

CONVERSION

RECOMMENDED MOUNTING PAD

CIRCUIT SIDE



Actual Size (Top)



Actual Size (Side)



FEATURES

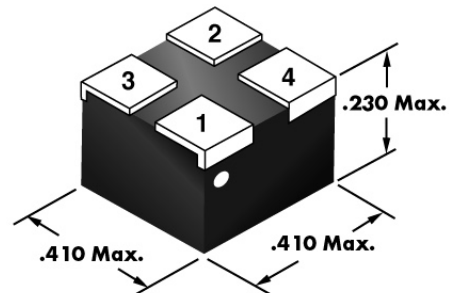
- Compact, low profile, surface mountable package.
- Leadless device, allowing for economy in packaging space.
- Terminations are tin-lead coated phosphor bronze, suitable for a variety of soldering techniques.
- Ideal for automatic placement.

CHARACTERISTICS

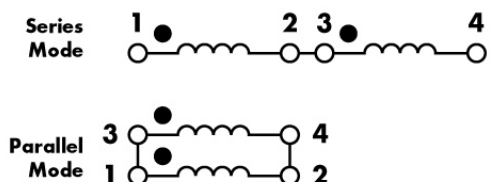
- -55 °C to +130 °C operating temperature.
- $\pm 2\%$ change in inductance over the operating temperature range.
- Temperature rise of less than 30 °C.
- Inductance drop of less than 30% with rated DC through inductor windings.
- Built to meet MIL-T-27 military specifications.
- Different values of 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 A2



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