

# MILITARY PRODUCTS

## Power Inductors

Package A1: 20 to 600 mA, .025 to 10,000 mH

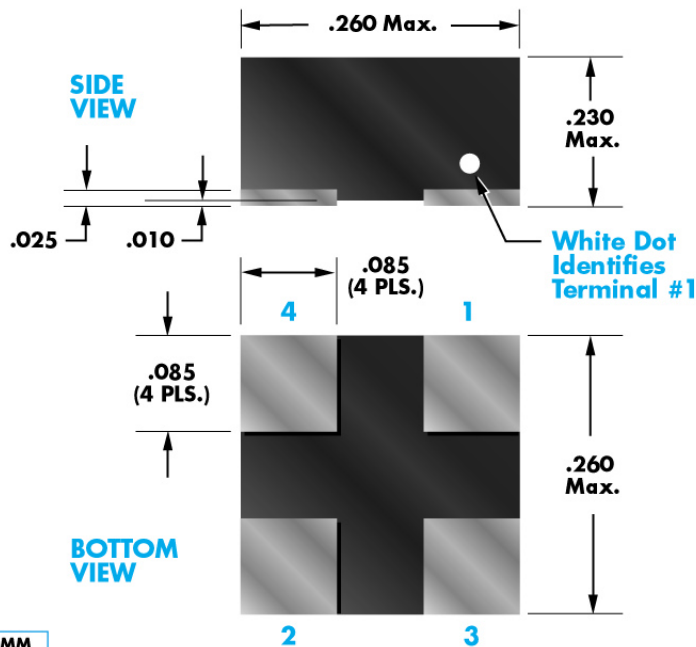
Qualified to DESC Dwg. No. 93027

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

Inductance is measured at 0.1Vrms and 10kHz



IN	MM
0.290	7.36
0.260	6.60
0.230	5.84
0.190	5.05
0.105	2.66
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

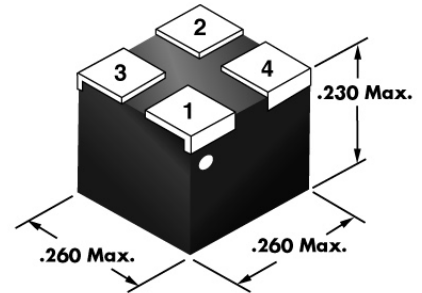
- Compact, low profile, surface mountable package.
- Leadless device, allowing for economy in packaging space.
- Terminations are tin-lead coated phosphor bronze, suitable for a variety of soldering techniques.
- Ideal for automatic placement.

### CHARACTERISTICS

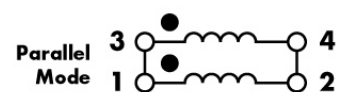
- -55 °C to +130 °C operating temperature.
- ±2% change in inductance over the operating temperature range.
- Temperature rise of less than 30 °C.
- Inductance drop of less than 30% with rated DC through inductor windings.
- Built to meet MIL-T-27 military specifications.
- Different values of inductance 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 A1



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