

# SURFACE MOUNT POWER INDUCTORS

## Power Inductors

Package A5: .180 to 10.0 A, <.0028 to 10 mH

### ELECTRICAL SPECIFICATIONS

VE Part Number	Series Inductance $\mu\text{H} \pm 12\%$	Series Rated D.C. mA	Series D.C. Res. Ohms Max	Parallel Inductance $\mu\text{H} \pm 12\%$	Parallel Rated D.C. mA	Parallel D.C. Res. Ohms Max	SRF
60041	11	4800	.024	2.76	9600	.006	
60042	18	3700	.036	4.50	7400	.009	
60043	27	3000	.052	6.75	6000	.013	
60044	38	2500	.076	9.50	5000	.019	
60045	44	2400	.084	11.00	4800	.021	
60046	100	1600	.20	25.00	3200	.050	
60047	200	1100	.46	50.00	2200	.115	
60048	400	800	.84	100.00	1600	.210	
60049	500	710	1.16	125.00	1420	.290	
60050	760	670	1.76	167.60	1140	.440	
60051	1000	500	2.00	250.00	1000	.500	
60052	2000	350	4.32	500.00	700	1.075	
60053	3000	290	6.64	750.00	580	1.660	
60054	4000	250	7.68	1000.00	500	1.920	
60055	7500	180	16.20	1875.00	360	4.050	
60056	10000	150	18.80	2500.00	300	4.070	
60057	11	6000	.020	2.75	12000	.005	
60058	18	4600	.032	4.50	9200	.008	
60059	27	3700	.044	6.75	7400	.011	
60060	38	3100	.064	9.50	6200	.016	
60061	44	3000	.068	11.00	6000	.017	
60062	100	2000	.152	25.00	4000	.038	
60063	200	1300	.340	50.00	2600	.085	
60064	400	890	.600	100.00	1780	.150	
60065	500	800	.848	125.00	1600	.212	
60066	750	700	1.32	187.50	1400	.330	
60067	1000	600	1.52	250.00	1200	.380	
60068	2000	430	3.40	500.00	860	.850	
60069	3000	360	5.20	750.00	720	1.300	
60070	4000	310	6.08	1000.00	620	1.520	
60071	7500	220	13.20	1875.00	440	3.300	
60072	10000	180	15.20	2500.00	360	3.800	

### FEATURES

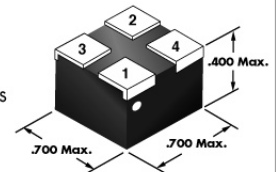
- Compact, low profile, surface mountable package.
- Leadless device, allowing for economy in packaging space.
- Terminations are tin-lead coated phosphor bronze, suitable for a variety of soldering techniques.
- Ideal for automatic placement.

### CHARACTERISTICS

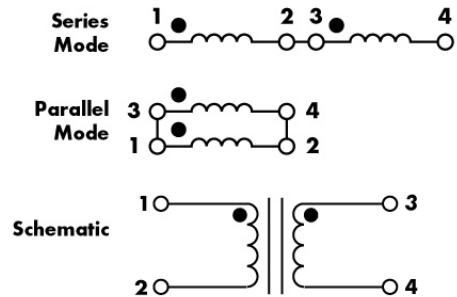
- -55 °C to +130 °C operating temperature.
- $\pm 2\%$  change in inductance over the operating temperature range.
- Temperature rise of less than 30 °C.
- Inductance drop of less than 30% with rated DC through inductor windings.
- Built to meet MIL-T-27 military specifications.
- Different values of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

### APPLICATIONS

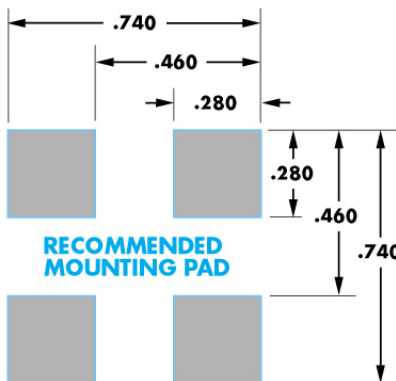
- Filter inductors
- Ripple suppressors
- Common mode chokes
- Isolation transformers
- Step up transformers
- Step down transformers



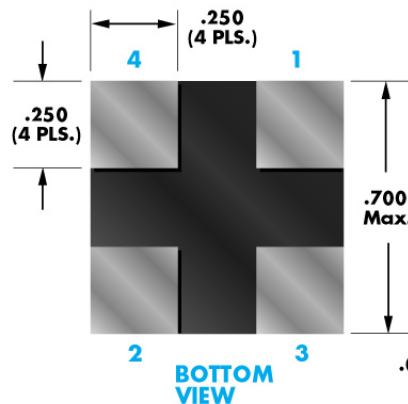
### TYPICAL USER CONNECTIONS



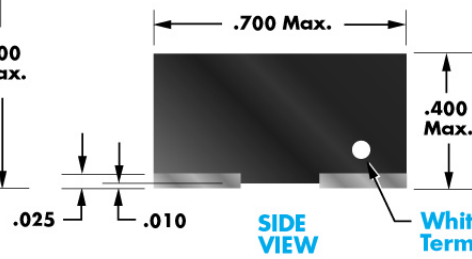
Inductance is measured at 0.1Vrms and 10kHz



RECOMMENDED MOUNTING PAD



BOTTOM VIEW



SIDE VIEW

White Dot is Terminal #1

IN	MM
0.740	18.80
0.700	17.78
0.460	11.68
0.400	10.16
0.280	7.11
0.250	6.35
0.025	0.64
0.010	0.26

CONVERSION

Actual Size (Top)



Actual Size (Side)



60,000 SERIES PACKAGE A5



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