

# VANGUARD ELECTRONICS

## Power Inductors

Package A3: 140 to 1,900 mA, 15 to 3,000 uH, .035 to 7.72 DCR Ohms max

Similar to M27/356

### ELECTRICAL SPECIFICATIONS

VE Part Number	Inductance uH ±10%	DC Resistance Ohms Max.	Rated D.C. mA
62301	15	0.035	2000
62302	18	0.047	1900
62303	20	0.051	1700
62304	22	0.055	1600
62305	25	0.064	1550
62306	27	0.074	1500
62307	30	0.078	1420
62308	33	0.083	1350
62309	39	0.088	1300
62310	47	0.119	1100
62311	50	0.125	1050
62312	56	0.131	1000
62313	68	0.188	950
62314	75	0.203	920
62315	82	0.218	890
62316	100	0.284	800
62317	120	0.312	730
62318	150	0.429	650
62319	180	0.478	590
62320	200	0.501	565

VE Part Number	Inductance uH ±10%	DC Resistance Ohms Max.	Rated D.C. mA
62321	220	0.524	540
62322	250	0.630	510
62323	270	0.737	480
62324	300	0.780	450
62325	330	0.824	430
62326	350	0.977	415
62327	390	1.13	400
62328	470	1.25	360
62329	500	1.30	340
62330	560	1.35	330
62331	680	1.88	300
62332	750	1.97	290
62333	820	2.07	280
62334	1000	2.88	250
62335	1200	3.15	230
62336	1500	4.35	200
62337	1800	4.74	180
62338	2000	5.69	175
62339	2200	6.64	170
62340	2700	7.38	150
62341	3000	7.72	140

### FEATURES

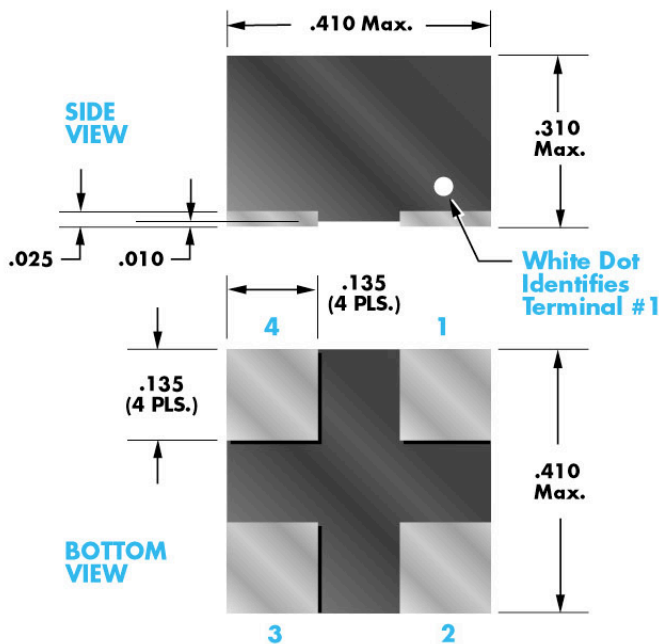
- Compact, low profile package, ideal for automatic placement
- Leadless Device for minimum footprint
- Low Thermal Expansion permits mounting on most substrate materials
- Different values and tighter tolerances available on special order
- Welded Internal Connections, Transfer Molded Package
- Toroidal Construction produces shielding and low external magnetic field

### CHARACTERISTICS

- **Operating Temperature Range:** -55 °C to +125 °C
- **Temperature Rise (@ 90 °C):** < 30 °C
- **Inductance drop at rated DC:** < 30%
- **Mounting and TCE:**  
Call Factory for Application Note
- **Dielectric Withstanding Voltage:** 500 Vac
- **Delta L:** ± 2% over operating temperature range
- **Terminations:** Tin-Lead Coated Phosphor Bronze
- **Altitude:** 70,000 feet or more (1.31 inHg or less)
- **Resistance to Soldering Heat:** 265 °C for 10 secs
- **Moisture, Shock and Immersion Resistant**
- **Overload Current:** 1.5 times rated current

### APPLICATIONS

- Filter inductors
- Ripple suppressors



IN	MM
0.535	13.59
0.410	10.41
0.310	7.87
0.260	6.60
0.230	5.84
0.200	5.08
0.135	3.43
0.085	2.16
0.025	0.64
0.010	0.26

CONVERSION

Actual Size (Side)

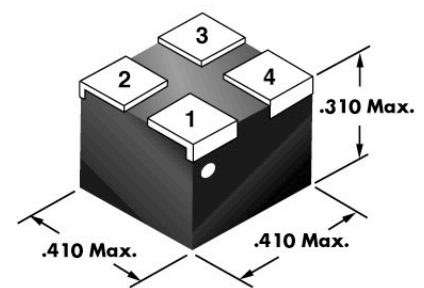
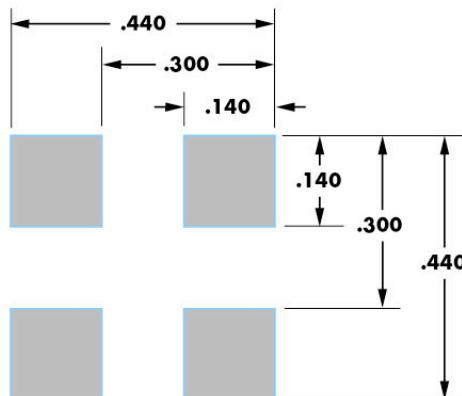


Actual Size (Top)

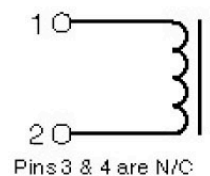


RECOMMENDED MOUNTING PAD

CIRCUIT SIDE



### TYPICAL USER CONNECTIONS



**62,000 SERIES**  
**PACKAGE A3**

**VANGUARD ELECTRONICS**  
(714) 842-3330