

# VANGUARD ELECTRONICS

## Power Inductors

Package A4: 180 to 2,760 mA, 15 to 3,000 uH, .0221 to 4.93 DCR Ohms max

Similar to M27/356

### ELECTRICAL SPECIFICATIONS

VE Part Number	Inductance uH ±10%	DC Resistance Ohms Max.	Rated D.C. mA
62401	15	0.0221	2760
62402	18	0.0289	2300
62403	20	0.0349	2250
62404	22	0.0400	2200
62405	25	0.0422	2100
62406	27	0.0444	2000
62407	30	0.0466	1900
62408	33	0.0489	1800
62409	39	0.0676	1600
62410	47	0.0760	1400
62411	50	0.089	1350
62412	56	0.102	1300
62413	68	0.113	1200
62414	75	0.118	1150
62415	82	0.123	1100
62416	100	0.174	1000
62417	120	0.192	920
62418	150	0.268	830
62419	180	0.289	760
62420	200	0.351	720

VE Part Number	Inductance uH ±10%	DC Resistance Ohms Max.	Rated D.C. mA
62421	220	0.413	680
62422	250	0.434	650
62423	270	0.456	620
62424	300	0.480	590
62425	330	0.505	560
62426	350	0.599	530
62427	390	0.693	510
62428	470	0.755	470
62429	500	0.887	450
62430	560	1.02	430
62431	680	1.13	390
62432	750	1.34	370
62433	820	1.56	350
62434	1000	1.75	320
62435	1200	1.89	290
62436	1500	2.70	260
62437	1800	2.96	240
62438	2000	3.11	220
62439	2200	3.27	210
62440	2700	4.59	190
62441	3000	4.93	180

### FEATURES

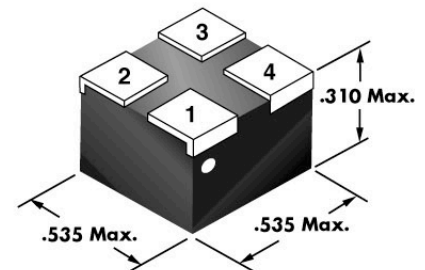
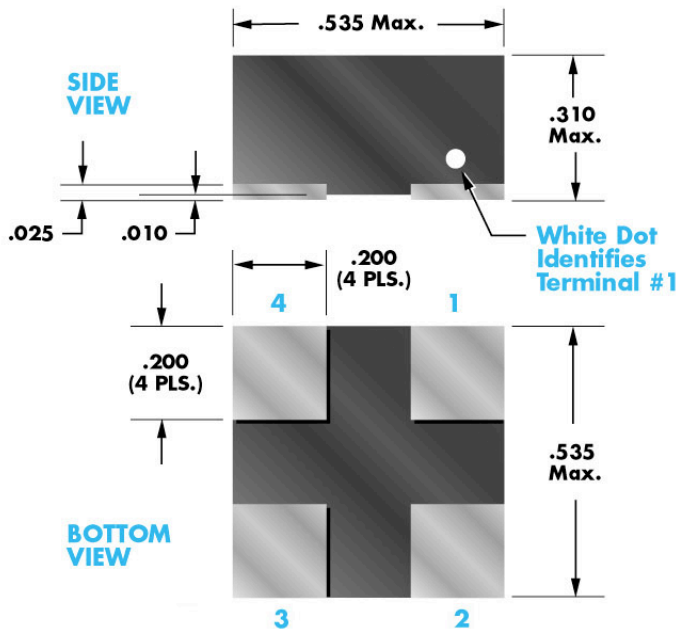
- Compact, low profile package, ideal for automatic placement
- Leadless Device for minimum footprint
- Low Thermal Expansion permits mounting on most substrate materials
- Different values and tighter tolerances available on special order
- Welded Internal Connections, Transfer Molded Package
- Toroidal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

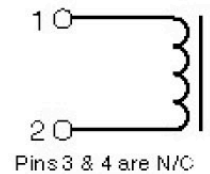
- Filter inductors
- Ripple suppressors



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

### TYPICAL USER CONNECTIONS



Actual Size (Side)

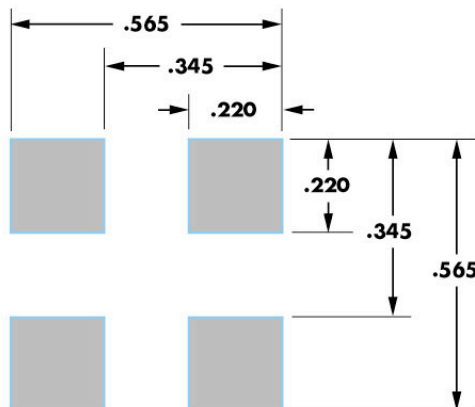


Actual Size (Top)



RECOMMENDED MOUNTING PAD

CIRCUIT SIDE



**62,000 SERIES**  
**PACKAGE A4**



VANGUARD ELECTRONICS  
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