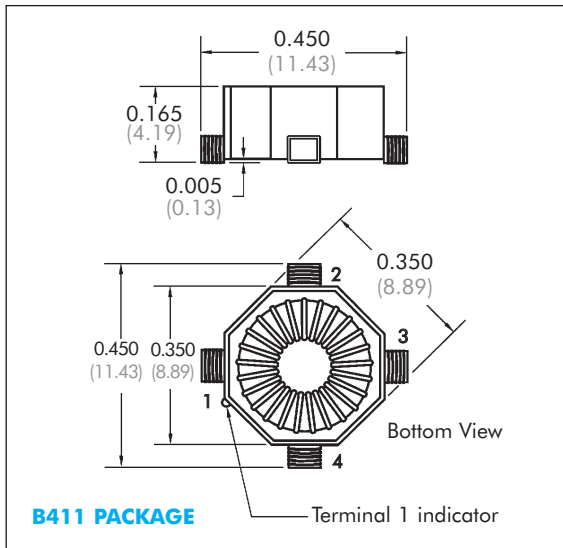


# POWER INDUCTORS

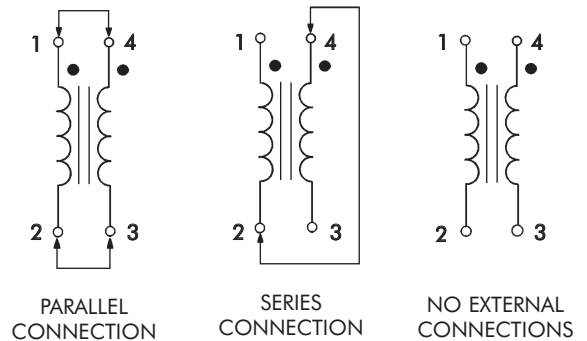
## TOROIDAL INDUCTORS SELF-LEADED SMT PL16 SERIES

Vanguard Part No.	P a r a l l e l				S e r i e s			
	Inductance @ 0 Amps uH $\pm 20\%$	Inductance @ Rated DCA uH min.	Rated Current Amps, DC	DC Resistance $\Omega$ , max.	Inductance @ 0 Amps uH, $\pm 20\%$	Inductance @ Rated DCA Amps, DC	Rated Current Amps, DC	DC Resistance $\Omega$ , max.
PL16-01	0.40	0.26	5.5	0.005	1.6	1.05	2.75	0.020
PL16-02	0.63	0.41	4.5	0.006	2.5	1.63	2.25	0.024
PL16-03	0.90	0.56	4.2	0.007	3.6	2.24	2.10	0.028
PL16-04	2.03	1.00	4.1	0.011	8.1	4.01	2.05	0.041
PL16-05	4.90	2.66	2.3	0.031	19.6	10.64	1.15	0.122
PL16-06	8.10	4.08	2.0	0.040	32.4	16.34	1.00	0.158
PL16-07	10.00	4.85	1.9	0.044	40.0	19.40	0.95	0.176
PL16-08	14.40	8.74	1.1	0.080	57.6	34.96	0.55	0.319
PL16-09	19.60	11.54	1.00	0.146	78.4	46.15	0.50	0.584
PL16-10	25.60	16.35	0.74	0.167	102.4	65.42	0.37	0.667
PL16-11	32.40	19.84	0.72	0.293	129.6	79.37	0.36	1.171
PL16-12	50.63	29.34	0.64	0.366	202.5	117.38	0.32	1.462
PL16-13	67.60	39.73	0.54	0.517	270.4	158.92	0.27	2.065
PL16-14	99.23	58.72	0.44	0.785	396.9	234.88	0.22	3.137
PL16-15	148.23	85.16	0.38	0.966	592.9	340.64	0.19	3.862
PL16-16	202.50	107.60	0.37	1.142	810.0	430.39	0.19	4.567
PL16-17	302.50	191.38	0.22	1.432	1210.0	765.54	0.11	5.725



Dimensions: inches (mm)      Tolerances (unless otherwise stated)  $\pm .010$  inches,  $\pm .25$  mm.

### TYPICAL USER CONNECTIONS



### FEATURES & CHARACTERISTICS

- **Installation:** Shape and size are ideal for automatic placement. Compatible with all standard solder installation methods: reflow/flow, wave, infrared, and vapor phase.
- **Standard Inductance Tolerance:**  $\pm 20\%$ , tighter tolerances available. Other inductance values and/or current ratings are available.
- **Operating Temperature:**  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$
- **Temperature Rise:**  $40^\circ\text{C}$  maximum above  $85^\circ\text{C}$  ambient. Derate linearly to  $+125^\circ\text{C}$



VANGUARD ELECTRONICS COMPANY  
(310) 323-4100 WWW.VE1.COM

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(02/00)

PL16 SERIES