



## P SERIES RF WIDEBAND TRANSFORMER



### MIL-PRF-27

Bandwidth (MHz)	Max Insertion Loss @ 50MHz	Impedance Ratio
0.5 to 390	1 to 1.7	1:1 to 1:16

### ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Dielectric Withstanding Voltage:** 300 V<sub>AC</sub>
- **Different electrical values available upon request**
- **Power Rating:** 250 mW
- **Frequency Response:** Up to 350 MHz

MARKINGS: LASER OR INK  
ALL DIMENSIONS: INCHES

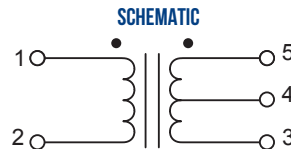
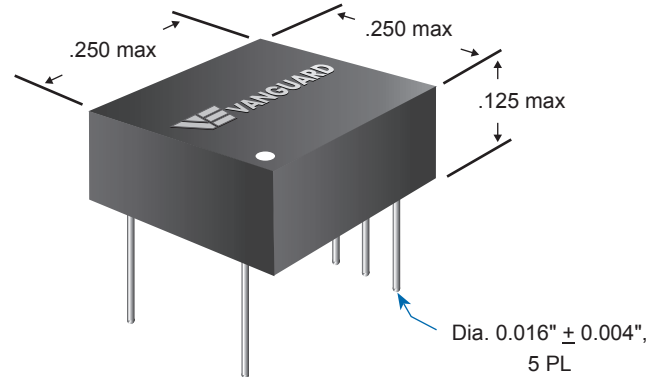
SMT AND GULLWING  
PACKAGES ALSO AVAILABLE

### FEATURES

- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-PRF-27 (MIL-T-55631)** specifications
- **Low thermal expansion, Transfer Molded Package**
- **Terminations:** Tin-lead, Gold, RoHS
- Other termination finishes available
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Resistance to Soldering Heat:** 265°C for 10 secs

### APPLICATIONS

- Wideband Transformers
- RF Transformers



ACTUAL SIZE



#### CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types





### DATA TABLE

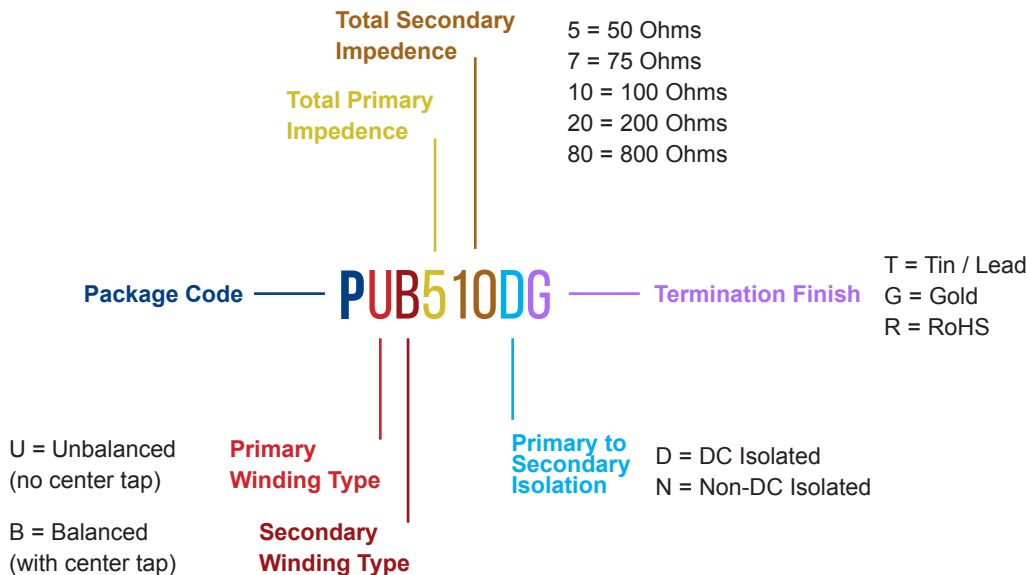
Vanguard P/N P Series	Impedance Ratio Pri : Sec	Primary Center Tap**	Secondary Center Tap	Insertion Loss @50 MHz max ref (dB)	VSWR @50 MHz max ref	Bandwidth min (MHz)	
						0.5 dB (Ripple)	3 dB Points
PUB55D	1 : 1	No	Yes	1	1.3	5.0 - 130	1.0 - 390
PUB57D	1 : 1.5	No	Yes	1.5	1.6	6.0 - 90	3.0 - 200
PUB510D	1 : 2	No	Yes	1.1	1.36	2.0 - 100	0.5 - 230
PUB520D	1 : 4	No	Yes	1	1.2	2.0 - 150	0.8 - 300
PUB580D	1 : 16	No	Yes	1.2*	1.7*	12 - 35	2.0 - 140
PUU55D	1 : 1	No	No	1	1.35	7.0 - 100	1.2 - 350
PUU57D	1 : 1.5	No	No	1.7	1.65	8.0 - 70	4.0 - 170
PUU510D	1 : 2	No	No	1.3	1.4	3.0 - 85	0.9 - 200
PUU520	1 : 4	No	No	1.1	1.25	4.0 - 130	1.0 - 250
PUU580D	1 : 16	No	No	1.5*	1.95*	12 - 25	2.5 - 110

Inductance measured at 10 kHz, 0.1 V<sub>RMS</sub> \*Measured at 15 MHz

\*\*To design with primary center tap - contact factory.

FOR ADDITIONAL CATALOG VALUES, PLEASE SEE THE BELOW PART NUMBERING SYSTEM OR CONTACT THE FACTORY:

### PART NUMBER



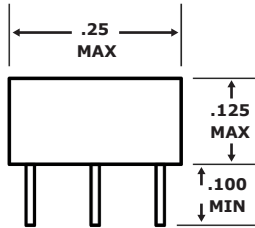
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Other electrical configurations and performance characteristics are available in various sizes and package types

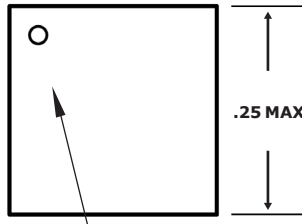




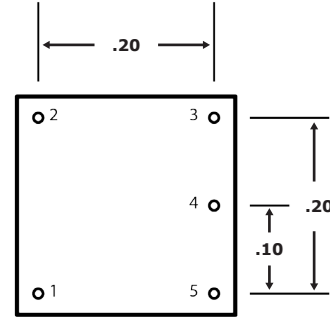
# P SERIES



SIDE VIEW



TOP VIEW



BOTTOM VIEW

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