



## R & S SERIES

### RF WIDEBAND TRANSFORMER



### ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Dielectric Withstanding Voltage:** 100 V<sub>AC</sub>
- **Different electrical values available upon request**
- **Power Rating:** 100 mW
- **Outgassing TML:** <1%

### 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
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **Other termination finishes available**

### APPLICATIONS

- Wideband Transformers
- RF Transformers

#### CUSTOM DESIGNS & MODIFICATIONS:

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

### RoHS & XT VERSIONS AVAILABLE

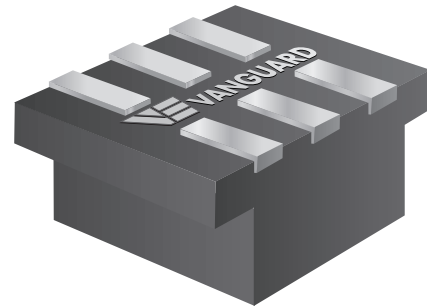
### MIL-PRF-27

Bandwidth (MHz)	Max Insertion Loss @ 50 MHz	Impedance Ratio
0.5 to 3000*	0.8 to 2.0	1:1 to 1:16

\*REFERENCE UWB SERIES

THRU-HOLE AND GULLWING PACKAGES ALSO AVAILABLE

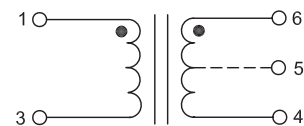
## R SERIES



## S SERIES



SCHEMATIC





## DATA TABLE

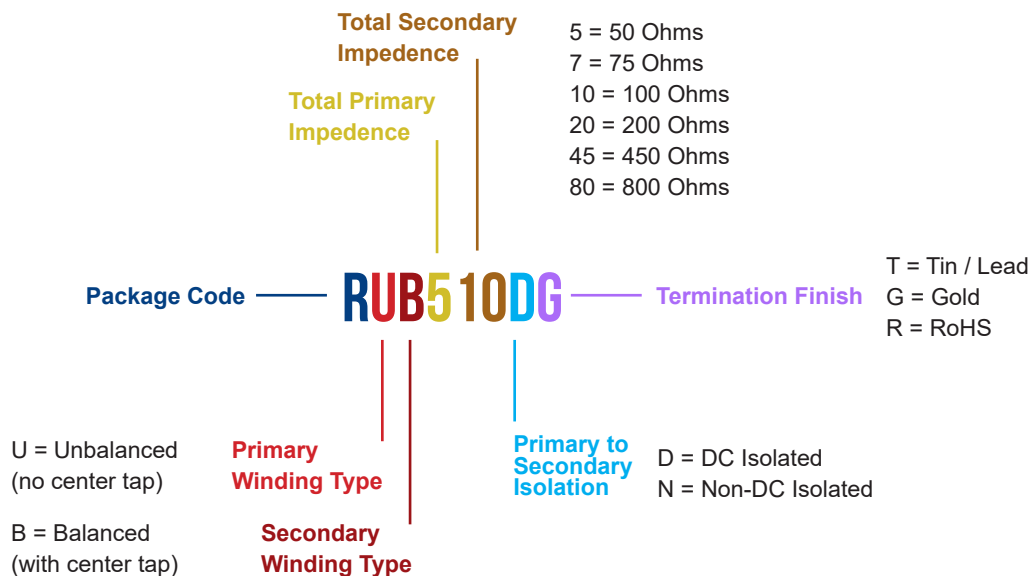
Vanguard P/N R SERIES	Vanguard P/N S SERIES	Impedance Ratio Pri : Sec	Primary Center Tap**	Secondary Center Tap	Insertion Loss @ 50 MHz max ref (dB)	VSWR @ 50 MHz max ref	Bandwidth min (MHz)	
							0.5 dB (Ripple)	3 dB Points
RUB55D	SUB55D	1 : 1	No	Yes	1.0	1.35	6.0 - 120	1.5 - 360
RUB1010D	-	1 : 1	No	Yes	1.3	1.7	12 - 35	3 - 125
-	SUB1010D	1 : 1	No	Yes	0.8	1.35	6 - 120	1.5 - 360
RUB57D	SUB57D	1 : 1.5	No	Yes	1.6	1.80	7.0 - 80	4.0 - 180
RUB510D	SUB510D	1 : 2	No	Yes	1.0	1.27	12 - 85	1.2 - 200
RUB1020D	SUB1020D	1 : 2	No	Yes	1.2	1.4	12 - 85	1.2 - 200
RUB520D	SUB520D	1 : 4	No	Yes	1.0	1.30	7.0 - 130	0.9 - 270
RUB545D	SUB545D	1 : 9	No	Yes	2.0***	-	-	6 - 100
RUB580D	SUB580D	1 : 16	No	Yes	1.3*	2.0*	14 - 30	3.0 - 125
RUU55D	SUU55D	1 : 1	No	No	1.0	1.35	8.0 - 90	1.5 - 300
RUU57D	SUU57D	1 : 1.5	No	No	1.5	1.80	9.0 - 60	6.0 - 130
RUU510D	SUU510D	1 : 2	No	No	1.4	1.50	15 - 80	1.5 - 250
RUU520	SUU520	1 : 4	No	No	1.2	1.35	8.0 - 125	1.3 - 210
RUU580D	SUU580D	1 : 16	No	No	1.3*	2.0*	16 - 25	3.0 - 100

Inductance measured at 10 kHz, 0.1 V<sub>RMS</sub> \*Measured at 15 MHz \*\*\*Measured at 10.7 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



#### CUSTOM DESIGNS & MODIFICATIONS:

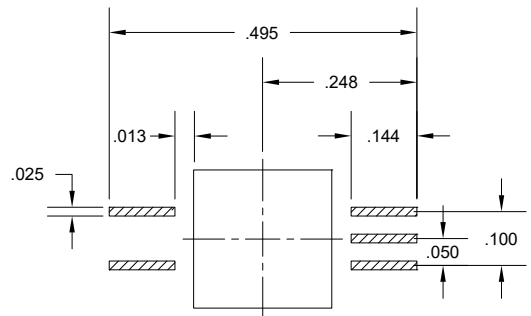
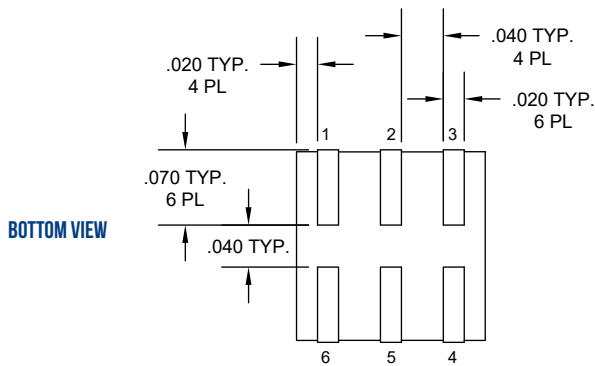
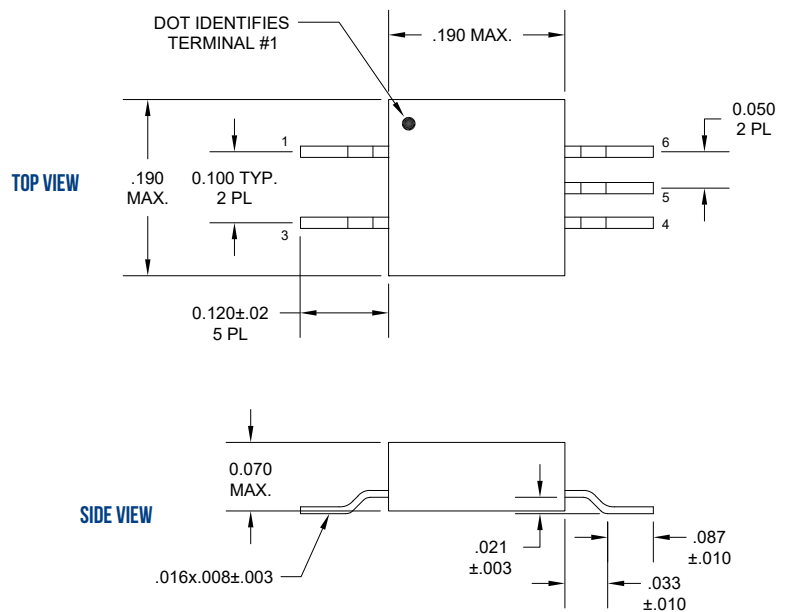
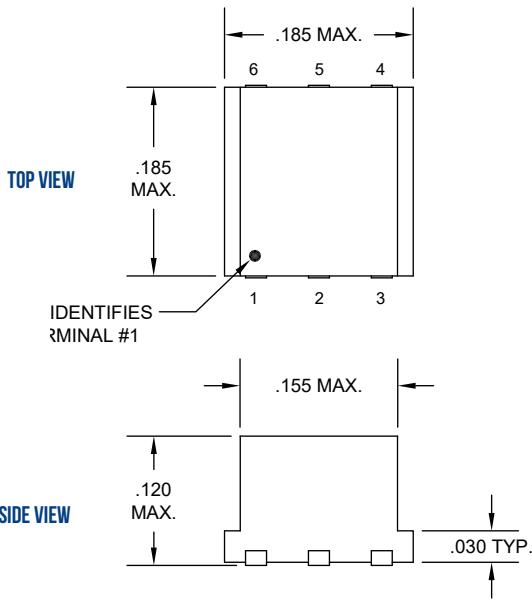
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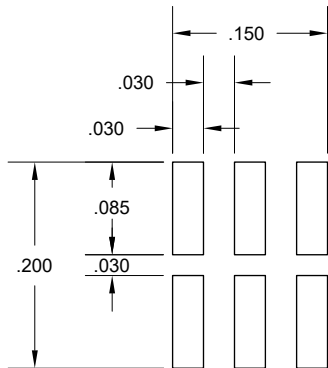


# R SERIES

# S SERIES



RECOMMENDED MOUNTING PAD CIRCUIT SIDE



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

ALL DIMENSIONS: INCHES

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