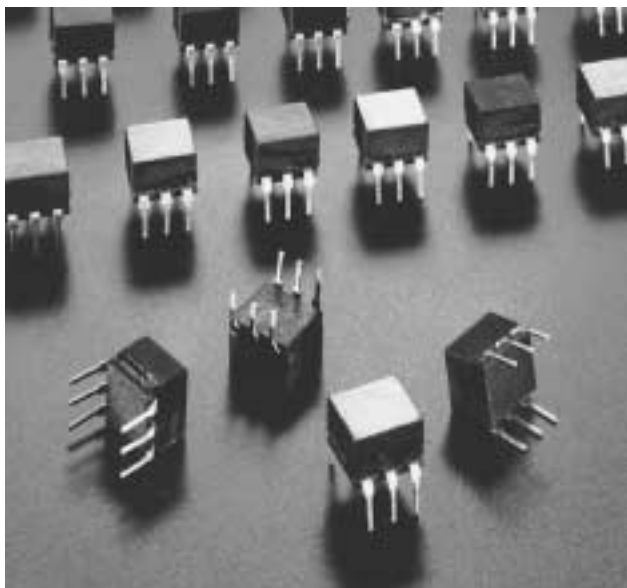


# Wide Band RF Transformers



Coilcraft wide band transformers provide reliable performance at a price considerably lower than currently available equivalents.

The transformers are offered in tapped or untapped configurations and are packaged in a low-profile DIP-style plastic case. All parts are available in either a surface mount version or a through-hole version that's compatible with standard DIP sockets. (For a smaller package size and more values, see our TTWB Series.)

Applications include impedance matching, voltage or current transformation, DC isolation, balanced/unbalanced mixing, matching, power splitting, coupling and signal inversion.

Custom wide band transformers with special combinations of impedance ratio, insertion loss, frequency response and current handling are also available.

## SPECIFICATIONS

| Configuration | Part Number<br>(Through-Hole) | Part Number <sup>1</sup><br>(Surface Mount) | Impedance<br>ratio<br>Pri:Sec | I <sub>DC</sub> Max<br>(mA) | Frequency<br>(MHz) | Pins 1–3      |                   | Pins 6–4      |                   |
|---------------|-------------------------------|---------------------------------------------|-------------------------------|-----------------------------|--------------------|---------------|-------------------|---------------|-------------------|
|               |                               |                                             |                               |                             |                    | L Min<br>(μH) | DCR Max<br>(Ohms) | L Min<br>(μH) | DCR Max<br>(Ohms) |
|               | WB1010-PC                     | WB1010-SM                                   | 1:1                           | 250                         | .005–100           | 780           | .320              | 780           | .320              |
|               | WB1010-1-PC                   | WB1010-1-SM                                 | 1:1                           | 250                         | .04–175            | 95            | .200              | 95            | .200              |
|               | WB1015-PC                     | WB1015-SM                                   | 1.5:1                         | 250                         | .1–150             | 80            | .145              | 51            | .130              |
|               | WB1040-PC                     | WB1040-SM                                   | 4:1                           | 250                         | .2–300             | 95            | .160              | 25            | .115              |
|               | WB2010-PC                     | WB2010-SM                                   | 1:1                           | 250                         | .005–100           | 780           | .320              | 780           | .320              |
|               | WB2010-1-PC                   | WB2010-1-SM                                 | 1:1                           | 250                         | .04–175            | 95            | .200              | 95            | .200              |
|               | WB2040-PC                     | WB2040-SM                                   | 4:1                           | 250                         | .2–300             | 95            | .160              | 25            | .115              |
|               | WB3010-PC                     | WB3010-SM                                   | 1:1                           | 250                         | .005–100           | 780           | .320              | 780           | .320              |
|               | WB3010-1-PC                   | WB3010-1-SM                                 | 1:1                           | 250                         | .04–175            | 95            | .200              | 95            | .200              |
|               | WB3015-PC                     | WB3015-SM                                   | 1.5:1                         | 250                         | .1–150             | 80            | .145              | 51            | .130              |
|               | WB3040-PC                     | WB3040-SM                                   | 4:1                           | 250                         | .2–300             | 95            | .160              | 25            | .115              |

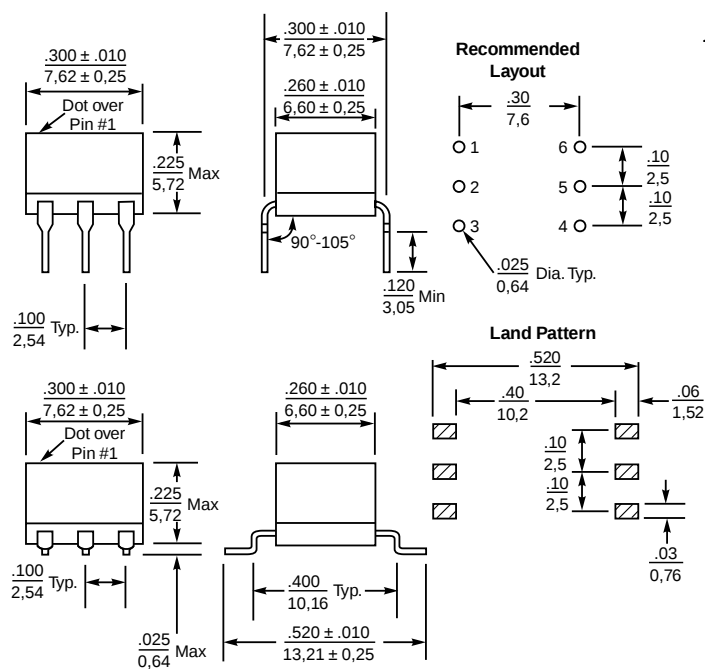
1. For a smaller package size and more values, see TTWB Series.
2. 500 V isolation.
3. Operating temperature range –40° C to +85° C.
4. Electrical specifications at 25° C.

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Specifications subject to change without notice. Document 116-1 Revised 4/19/01

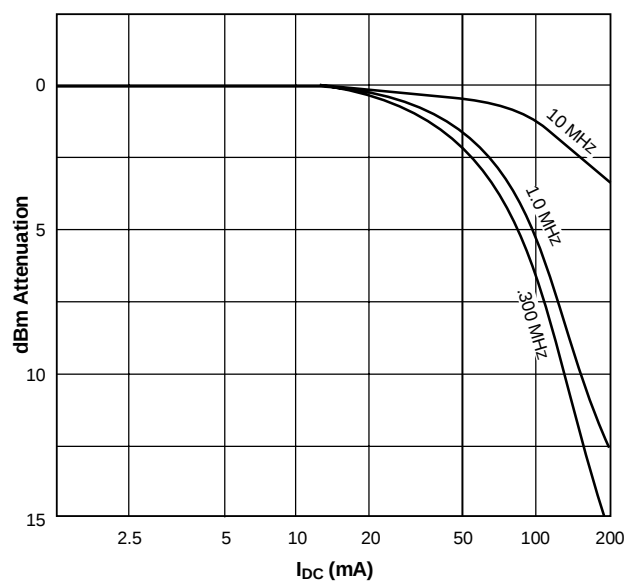
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469  
E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>

# Wide Band RF Transformers



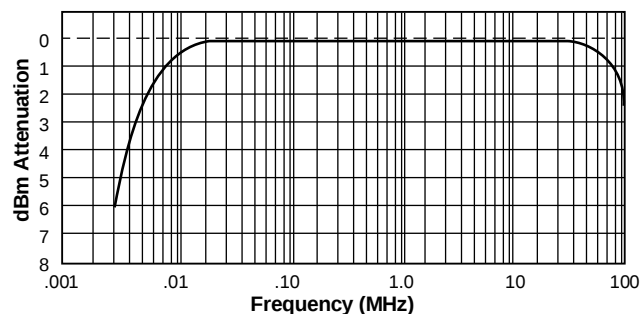
Parts/reel: 13" 500 Tape width: 24 mm  
For packaging data, see "Tape and Reel Specifications" (Doc. 173).

### ATTENUATION vs CURRENT (TYP.)

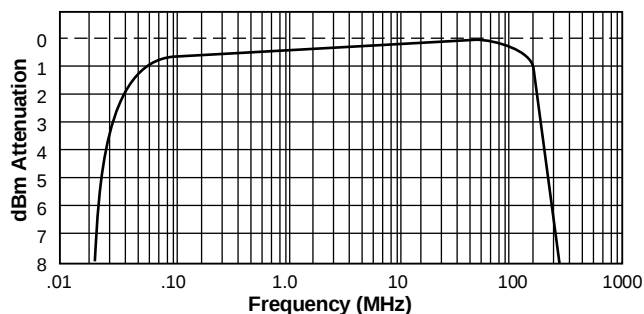


## TYPICAL FREQUENCY RESPONSE

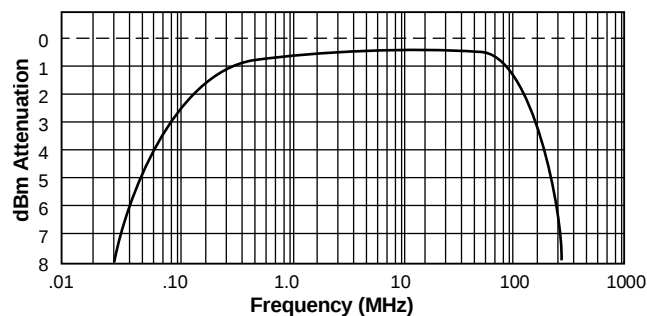
**WB1010, WB2010, WB3010**  
3dB bandwidth .005–100 MHz



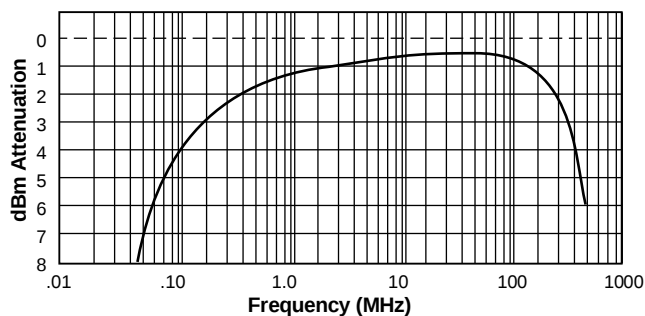
**WB1010-1, WB2010-1, WB3010-1**  
3dB bandwidth .04–175 MHz



**WB1015, WB3015**  
3dB bandwidth .1–150 MHz



**WB1040, WB2040, WB3040**  
3dB bandwidth .2–300 MHz



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Specifications subject to change without notice. Document 116-2 Revised 4/9/01

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