

# Balun Transformers

## C.I.S.P.R. 17/IEC 1981 Measurements



### Data Sheet

The C.I.S.P.R. 17/IEC 1981 ("CISPR 17") standard describes the method of insertion loss measurement of passive radio-frequency suppression filters, i.e., how useful the filter is in reducing noise.

For balanced filters, North Hills' Model NH16434 converts the unbalanced 50Ω generator impedance to a 0.1Ω balanced source impedance.

For unbalanced filters, North Hills' Model NH16435 provides a 0.1Ω unbalanced source impedance.

**\*North Hills Application Note 164 - "C.I.S.P.R. 17 Transformers Application Note"** provides further information on the subject of insertion loss measurement of passive radio-frequency suppression filters.



North Hills NH16434 optimized for C.I.S.P.R. 17/IEC 1981 measurements

#### Features:

- Return Loss better than 20 dB
- Signal Loss 45 dB max
- All case styles are hermetically sealed metal cans

#### Benefits:

- High common mode injection
- Precision-engineered
- Optimized for C.I.S.P.R. 17/IEC 1981 measurements

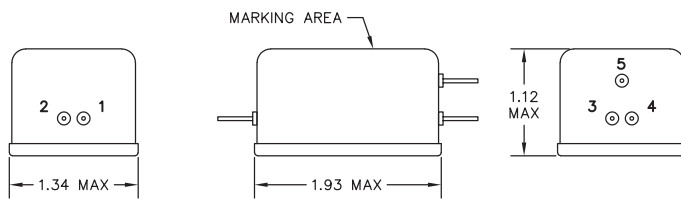
For more information: [www.BTTC-Beta.com/CISPR](http://www.BTTC-Beta.com/CISPR)



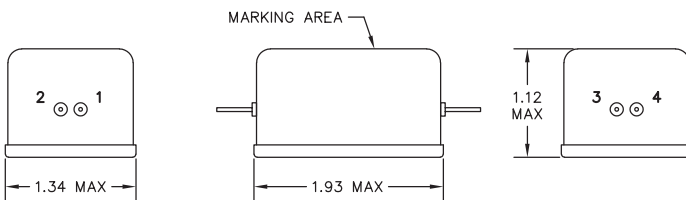
# Technical Drawings

## Case Styles

NH16434

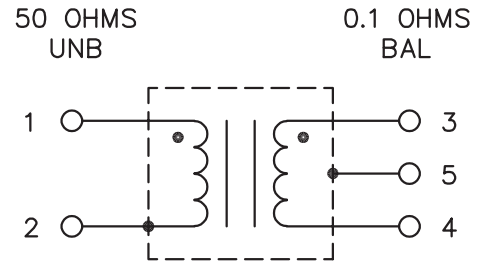


NH16435

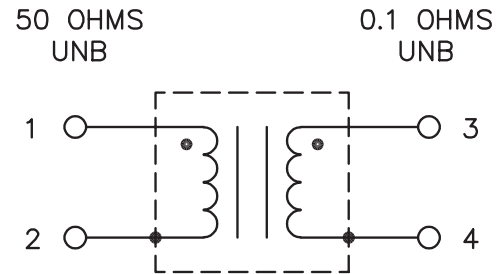


## Schematics

NH16434



NH16435



## Specifications

### Material Specifications: (unless otherwise specified)

Parameter	Value
Case & Cover	Cold Rolled Steel
Finish	Hot Tin Dip
Terminals	ø.040 PC board mount solderable pins

## Ordering Information

Model	Impedance	Frequency Range	Return Loss	Signal Loss
NH16434	50Ω Unbalanced/0.1Ω Balanced	10 kHz - 30 MHz	Better than 20 dB <sup>1</sup>	45 dB Max.
NH16435	50Ω Unbalanced/0.1Ω Unbalanced	10 kHz - 30 MHz	Better than 20 dB <sup>1</sup>	45 dB Max.

<sup>1</sup>At 50 ohm input



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