



# RF transformers

Balun

**Series/Type:** B78408A1246A003

**Date:** March 2008

**SMD**

**Technical data**

- Double-aperture transformer
- Recommended frequency range: 1800 MHz to 2400 MHz
- Operating temperature: -40 °C to +85 °C
- Weight: approx. 105 mg

**Feature**

- RoHS-compatible

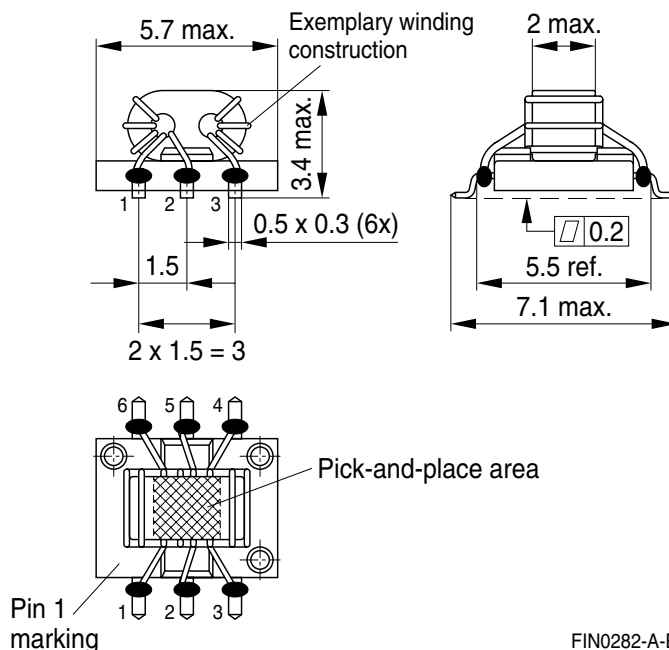
**Marking**

- No marking on components
- Minimum data on reel: Manufacturer, ordering code, quantity, date code

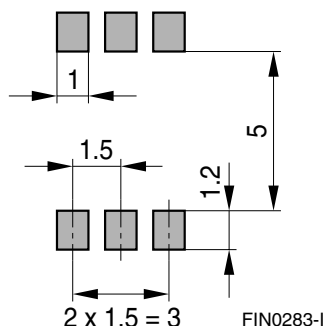
**Delivery mode and packing unit**

- 12-mm blister tape to IEC 60286-3, wound on 330-mm Ø reel
- Packing unit: 2100 pcs./reel

**Dimensional drawing**

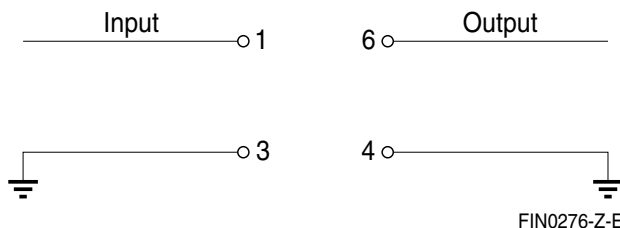
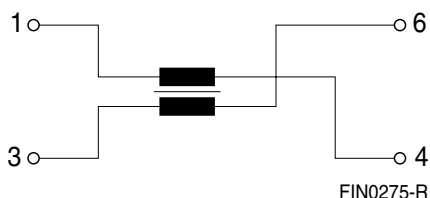


Layout recommendation



Dimensions in mm

**Circuit diagram and test arrangement**



**Insertion loss**

Measurement instrument: Network analyzer  
 Impedance: 50 Ω  
 Values specified at 25 °C

Frequency (MHz)	1800	2050	2400
Input/Output (dB)	< 2.1	< 2.0	< 2.0

## Cautions and warnings

- Please note the recommendations in our Inductors data book (latest edition) and in the data sheets.
  - Particular attention should be paid to the derating curves given there.
  - The soldering conditions should also be observed. Temperatures quoted in relation to wave soldering refer to the pin, not the housing.
- If the components are to be washed varnished it is necessary to check whether the washing varnish agent that is used has a negative effect on the wire insulation, any plastics that are used, or on glued joints. In particular, it is possible for washing varnish agent residues to have a negative effect in the long-term on wire insulation.
- The following points must be observed if the components are potted in customer applications:
  - Many potting materials shrink as they harden. They therefore exert a pressure on the plastic housing or core. This pressure can have a deleterious effect on electrical properties, and in extreme cases can damage the core or plastic housing mechanically.
  - It is necessary to check whether the potting material used attacks or destroys the wire insulation, plastics or glue.
  - The effect of the potting material can change the high-frequency behaviour of the components.
- Ferrites are sensitive to direct impact. This can cause the core material to flake, or lead to breakage of the core.
- Even for customer-specific products, conclusive validation of the component in the circuit can only be carried out by the customer.

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