

# New Product Announcement!

Surface Mount

## RF Transformer

TC1.33-1T-75+

75Ω

3 to 500 MHz



CASE STYLE: AT224-1A

### The Big Deal

- Excellent return loss, 23dB typical
- Highly accurate 75Ω to 100Ω balanced transition
- Cost-effective design

Pricing: **\$2.19** (QTY 20)

**\$1.19** (QTY 100)

### Product Overview

This high-performance, low-cost transformer is ideal for use with push-pull amplifiers where balanced-to-unbalanced RF signal transformation is required. It is an ideal match for the inputs of Mini-Circuits dual MMIC amplifiers. When used in this configuration, the high phase and amplitude accuracy provides excellent IP2 and IP3 performance, making it ideal for use in 75Ω CATV return applications or any single-ended 75Ω to balanced 50Ω application.

### Key Features

Feature	Advantages
Wideband	Usable range of 3MHz to 500MHz makes this transformer suitable for multiple applications and covers the entire spectrum of CATV return path applications.
Excellent phase and amplitude performance	Typical amplitude unbalance of 0.5dB and phase unbalance of 3° in a 1dB bandwidth is unmatched for a transformer in this price range.
DC isolation	This feature enables the TC1 series to work in applications down to very low frequencies and when isolation of the primary and secondary windings is required.
Highly accurate impedance matching	The very accurate matching makes this product ideal for CATV applications running parallel 75Ω single-ended signals into 100Ω circuits in a differential configuration.
Extremely low cost	Mini-Circuits's unique design approach enables a high-performance transformer to be available in the market at a low cost for high-volume production.



ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).