*Surface Mount*

# RF Transformer

0.25 to 300 MHz

NEW

# ADTT1.5-1

CASE STYLE: CD636
PRICE: $ 3.95 ea.
QTY. (10-49)

## Maximum Ratings

| | |
|---|---|
| Operating Temperature | -20°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 250 mW |

## Pin Configuration (kr)

| | |
|---|---|
| primary dot | 3 |
| primary | 1 |
| primary ct | 2 |
| secondary dot | 4 |
| secondary | 6 |
| secondary ct | 5 |

***EVALUATION BOARD: TB-42***

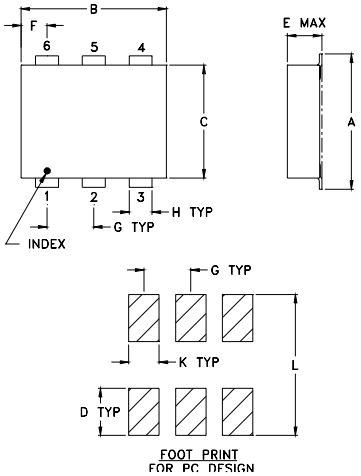
## Features

- excellent amplitude unbalance, 0.15 dB typ. and phase unbalance, 1 deg. typ. in 1 dB bandwidth
- excellent return loss, 15 dB typ. in 1 dB bandwidth

## Applications

- impedance matching
- balanced amplifier

## Outline Drawing




## Outline Dimensions (inch / mm)

| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|
| .280 | .310 | .220 | .100 | .162 | .055 | .100 | .030 |
| 7.11 | 7.87 | 5.58 | 2.54 | 4.11 | 1.40 | 2.54 | 0.76 |

| J | K | L | wt. |
|---|---|---|---|
| — | .065 | .300 | grams |
| — | 1.65 | 7.62 | .45 |

## Electrical Specifications

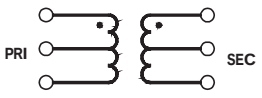
| Ω RATIO | FREQUENCY (MHz) | INSERTION LOSS* | | | PHASE UNBALANCE (Deg.) Typ. | | AMPLITUDE UNBALANCE (dB) Typ. | |
|---|---|---|---|---|---|---|---|---|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz | 1 dB bandwidth | 2 dB bandwidth | 1 dB bandwidth | 2 dB bandwidth |
| 1.5 | 0.25 - 300 | 0.25-300 | 0.3-175 | 0.5-100 | 1 | 2 | 0.15 | 0.3 |

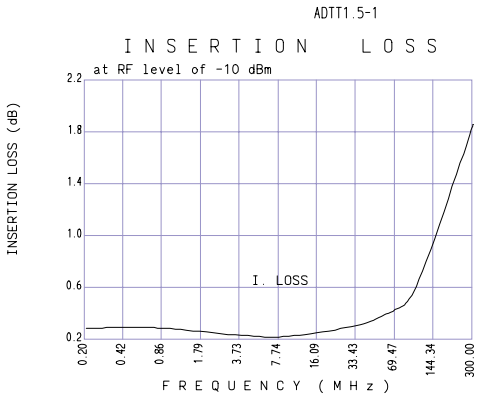
* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

## Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) | AMPLITUDE UNBALANCE (dB) | PHASE UNBALANCE (Deg.) |
|---|---|---|---|---|
| 0.20 | 0.29 | 17.11 | 0.07 | 0.08 |
| 0.60 | 0.30 | 26.04 | 0.10 | 0.00 |
| 1.00 | 0.29 | 29.04 | 0.07 | 0.04 |
| 5.00 | 0.23 | 32.13 | 0.07 | 0.04 |
| 10.00 | 0.23 | 29.83 | 0.08 | 0.19 |
| 40.00 | 0.33 | 20.68 | 0.08 | 0.72 |
| 50.00 | 0.38 | 18.96 | 0.11 | 0.94 |
| 80.00 | 0.47 | 15.23 | 0.18 | 1.45 |
| 100.00 | 0.53 | 13.49 | 0.25 | 1.81 |
| 300.00 | 1.87 | 5.87 | 1.59 | 6.47 |

config. B




REV. A
M774581
ED-7829/1
ADTT1.5-1
WZ/TD/CP
001129

Mini-Circuits®
*INTERNET* http://www.minicircuits.com
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661
*Distribution Centers* NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010