

Surface Mount RF Transformer

75Ω 5 to 1800 MHz

ADTL1-18-75+ ADTL1-18-75

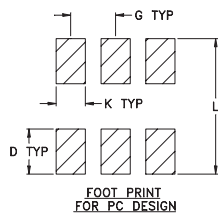
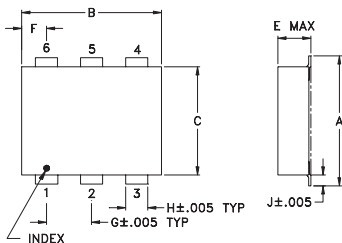
Maximum Ratings

| | |
|-----------------------|----------------|
| Operating Temperature | -20°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 0.25W |
| DC Current | 30mA |

Pin Connections

| | |
|---------------|-----|
| PRIMARY DOT | 1 |
| PRIMARY | 3 |
| SECONDARY DOT | 6 |
| SECONDARY | 4 |
| NOTUSED | 2,5 |

Outline Drawing



Outline Dimensions (inch/mm)

| A | B | C | D | E | F | G |
|------|------|------|------|------|------|------|
| .280 | .310 | .220 | .100 | .112 | .055 | .100 |
| 7.11 | 7.87 | 5.59 | 2.54 | 2.84 | 1.40 | 2.54 |

| H | J | K | L | wt |
|------|------|------|------|-------|
| .030 | .030 | .065 | .300 | grams |
| 0.76 | 0.76 | 1.65 | 7.62 | 0.20 |

Features

- wideband, 5 to 1800 MHz
- balanced transmission line
- aqueous washable
- protected under US patent 6133525

Applications

- impedance matching
- balanced amplifier
- cellular
- GPS



CASE STYLE: CD542
PRICE: \$2.95 ea. QTY (10-49)

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

See our web site for RoHS Compliance methodologies and qualifications.

Transformer Electrical Specifications

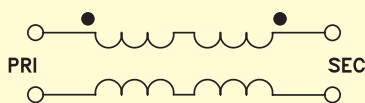
| Ω RATIO | FREQUENCY (MHz) | INSERTION LOSS* | | | PHASE UNBALANCE (Deg.) Typ. | | AMPLITUDE UNBALANCE (dB) Typ. | |
|---------|-----------------|-----------------|----------|----------|-----------------------------|----------------|-------------------------------|----------------|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz | 1 dB bandwidth | 2 dB bandwidth | 1 dB bandwidth | 2 dB bandwidth |
| 1 | 5-1800 | — | 5-1800 | 25-1200 | 3 | 4 | 0.4 | 0.4 |

* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) | AMPLITUDE UNBALANCE (dB) | PHASE UNBALANCE (Deg.) |
|-----------------|---------------------|--------------------|--------------------------|------------------------|
| 5.00 | 0.18 | 20.90 | 1.01 | 20.51 |
| 30.00 | 0.23 | 31.73 | 0.72 | 4.08 |
| 200.00 | 0.30 | 31.44 | 0.54 | 0.47 |
| 400.00 | 0.42 | 24.44 | 0.42 | 2.05 |
| 600.00 | 0.51 | 20.03 | 0.28 | 3.18 |
| 800.00 | 0.58 | 18.44 | 0.11 | 3.74 |
| 1000.00 | 0.53 | 19.85 | 0.07 | 3.93 |
| 1200.00 | 0.57 | 27.29 | 0.27 | 3.67 |
| 1500.00 | 0.95 | 16.27 | 0.46 | 3.10 |
| 1800.00 | 1.60 | 9.71 | 0.44 | 2.21 |

Config. G



ADTL1-18-75
INSERTION LOSS

