

Plug-In RF Transformer

50Ω 0.01 to 100 MHz

T2.5-6T-X65+ T2.5-6T-X65



CASE STYLE: X65
PRICE: \$ 4.45 ea. QTY (1-9)

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

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

| | |
|-----------------------|----------------|
| Operating Temperature | -20°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 250mW |
| DC Current | 30mA |

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

| | |
|---------------|---|
| PRIMARY DOT | 4 |
| PRIMARY | 6 |
| SECONDARY DOT | 3 |
| SECONDARY | 1 |
| SECONDARY CT | 2 |
| NOT USED | 5 |

Features

- wideband, 0.01 to 100 MHz
- excellent return loss
- also available with flat-pack (W38) & surface mount gull-wing (KK81) leads

Applications

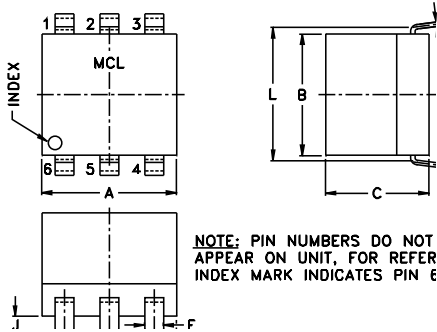
- impedance matching
- balanced to unbalanced transformation
- push-pull amplifiers

Transformer Electrical Specifications

| Ω RATIO (Secondary/Primary) | FREQUENCY (MHz) | INSERTION LOSS* | | |
|-----------------------------------|--------------------|-----------------|-------------|-------------|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz |
| 2.5 | 0.01-100 | 0.01-100 | 0.02-50 | 0.50-20 |

*Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

Outline Drawing



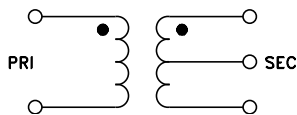
Outline Dimensions (inch/mm)

| | | | | | | | |
|------|------|------|------|------|------|-------|--|
| A | B | C | D | E | F | G | |
| .30 | .27 | .23 | .010 | .042 | .020 | .100 | |
| 7.62 | 6.86 | 5.84 | 0.25 | 1.07 | 0.51 | 2.54 | |
| H | J | K | L | M | | wt | |
| .05 | .04 | .11 | .300 | .35 | | grams | |
| 1.27 | 1.02 | 2.79 | 7.62 | 8.89 | | 0.50 | |

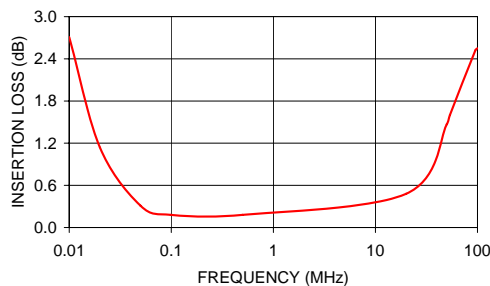
Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 0.01 | 2.71 | 1.70 |
| 0.02 | 1.14 | 4.46 |
| 0.05 | 0.31 | 10.63 |
| 0.10 | 0.18 | 16.39 |
| 0.50 | 0.48 | 26.01 |
| 20.00 | 1.47 | 10.09 |
| 50.00 | 1.60 | 4.52 |
| 53.67 | 1.60 | 4.19 |
| 95.26 | 2.52 | 2.82 |
| 100.00 | 2.55 | 2.87 |

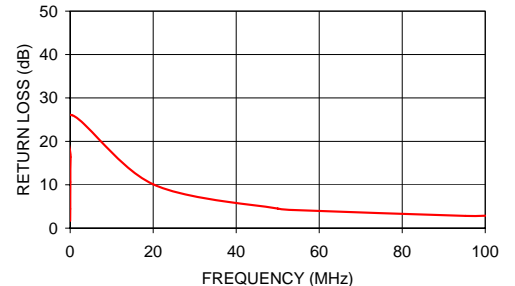
Config. A



T2.5-6T-X65
INSERTION LOSS



T2.5-6T-X65
INPUT RETURN LOSS



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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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.

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