

Surface Mount RF Transformer

50Ω 0.08 to 200 MHz

T1-1T-KK81+
T1-1T-KK81



Maximum Ratings

| | |
|-----------------------|------------------|
| Operating Temperature | -20°C to 85°C |
| Storage Temperature | -FT55°C to 100°C |
| RF Power | 0.25W |
| 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, 0.08 to 200 MHz
- excellent return loss
- also available with plug-in (X65)
- flat-pack (W38) leads

Applications

- VHF
- receivers/transmitters

CASE STYLE: KK81
PRICE: \$4.45 ea. QTY (1-9)

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

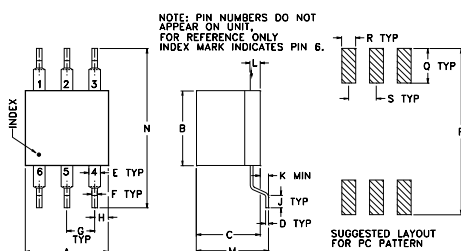
*The +Suffix identifies RoHS Compliance. See our web site
for RoHS Compliance methodologies and qualifications.*

Transformer Electrical Specifications

| Ω RATIO | FREQUENCY (MHz) | INSERTION LOSS* | | |
|------------|--------------------|-----------------|-------------|-------------|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz |
| 1 | 0.08-200 | .08-200 | 0.15-150 | 0.2-80 |

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

Outline Drawing



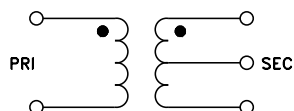
Outline Dimensions (inch/mm)

| | | | | | | | | |
|------|------|------|-------|-------|------|------|------|-------|
| A | B | C | D | E | F | G | H | J |
| .30 | .27 | .23 | .010 | .042 | .020 | .100 | .05 | .05 |
| 7.62 | 6.86 | 5.84 | 0.25 | 1.07 | 0.51 | 2.54 | 1.27 | 1.27 |
| K | L | M | N | P | Q | R | S | wt |
| .020 | .036 | .26 | .575 | .600 | .125 | .050 | .100 | grams |
| 0.51 | 0.91 | 6.60 | 14.61 | 15.24 | 3.18 | 1.27 | 2.54 | 0.50 |

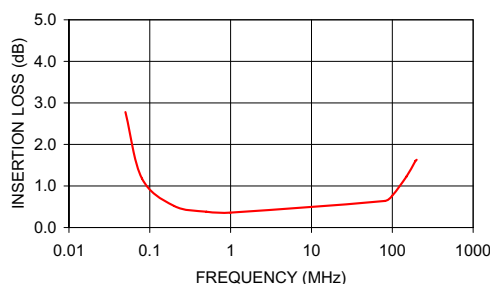
Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|--------------------|---------------------------|--------------------------|
| 0.05 | 2.78 | 1.64 |
| 0.08 | 1.18 | 4.39 |
| 0.20 | 0.52 | 9.45 |
| 0.50 | 0.38 | 16.31 |
| 1.00 | 0.36 | 19.67 |
| 80.00 | 0.64 | 9.96 |
| 99.33 | 0.76 | 8.80 |
| 150.00 | 1.23 | 5.83 |
| 192.51 | 1.60 | 4.60 |
| 200.00 | 1.63 | 4.55 |

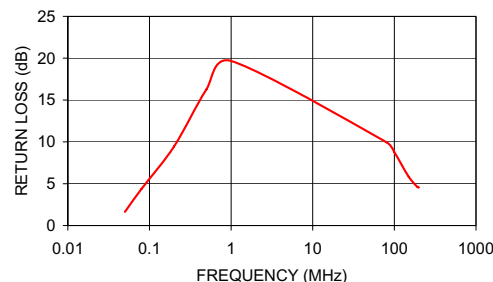
Config. A



T1-1T-KK81
INSERTION LOSS



T1-1T-KK81
INPUT RETURN LOSS



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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.

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