



FEATURES

- Wideband, 1.5-600 MHz
- Good return loss
- Plastic base with leads
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT1521

+RoHS Compliant

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

APPLICATIONS

- CATV
- VHF/UHF receivers/transmitters

ELECTRICAL SPECIFICATIONS AT 25°C

| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|-------------------------------------|-----------------|------|------|------|------|
| Impedance Ratio (primary/secondary) | | | 4 | | |
| Frequency Range | | 1.5 | | 600 | MHz |
| Insertion Loss* | 1.5-600 | | 3.0 | | dB |
| | 2-400 | | 2.0 | | |
| | 3-350 | | 1.0 | | |

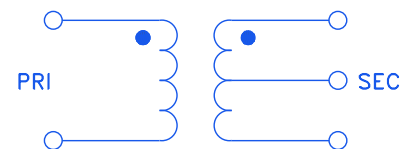
* Insertion Loss is referenced to mid-band loss, 0.6 dB typ.

MAXIMUM RATINGS

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

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

CONFIG. A



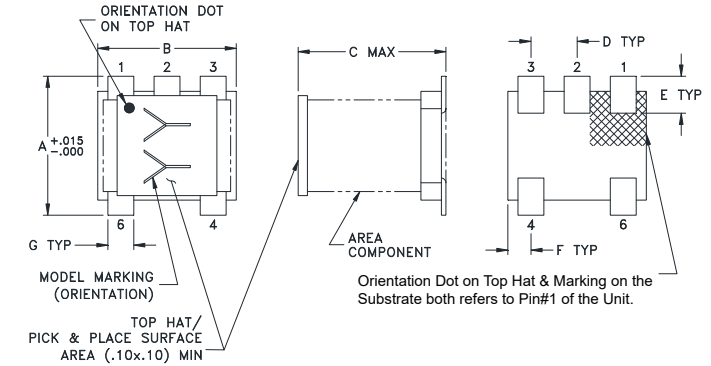


PIN CONNECTIONS

| | |
|---------------|---|
| PRIMARY DOT | 6 |
| PRIMARY | 4 |
| SECONDARY DOT | 1 |
| SECONDARY | 3 |
| SECONDARY CT | 2 |

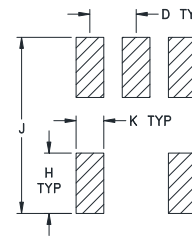
PRODUCT MARKING: FP

OUTLINE DRAWING



Top-hat total thickness: .013 inches MAX.

PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

OUTLINE DIMENSIONS (Inch mm)

| A | B | C | D | E | F | G | H | J | K |
|------|------|------|------|------|------|------|------|------|------|
| .150 | .150 | .160 | .050 | .040 | .025 | .028 | .065 | .190 | .030 |
| 3.81 | 3.81 | 4.06 | 1.27 | 1.02 | 0.64 | 0.71 | 1.65 | 4.83 | 0.76 |

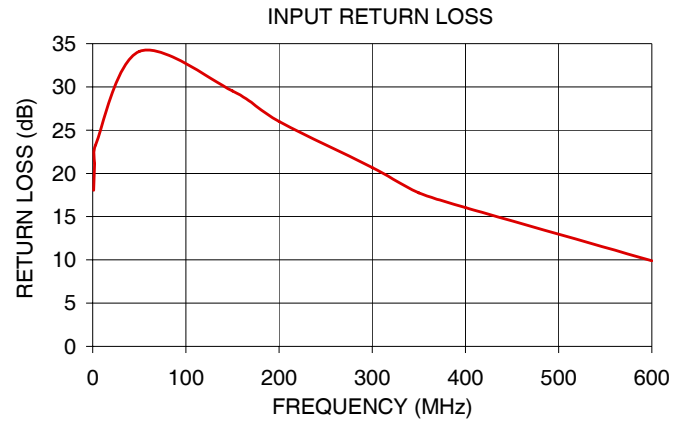
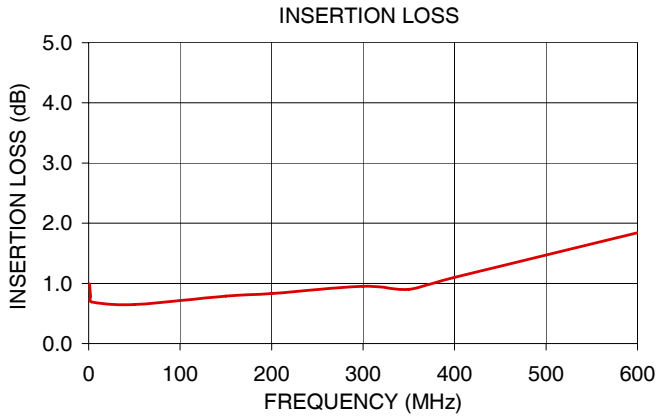
Weight: 0.15 grams

TAPE & REEL INFORMATION: F17



TYPICAL PERFORMANCE DATA

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 1.00 | 0.99 | 18.04 |
| 2.00 | 0.79 | 21.15 |
| 3.00 | 0.69 | 23.26 |
| 50.00 | 0.65 | 34.11 |
| 150.00 | 0.79 | 29.54 |
| 200.00 | 0.83 | 26.00 |
| 300.00 | 0.95 | 20.67 |
| 350.00 | 0.90 | 17.75 |
| 400.00 | 1.10 | 16.06 |
| 600.00 | 1.84 | 9.91 |



NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document 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/terms/viewterm.html