



## FEATURES

- Wideband, 0.5-2200 MHz
- Excellent return loss
- Suitable for tin/lead and RoHS solder systems
- Autotransformer
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT224-3

**+RoHS Compliant**

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

## APPLICATIONS

- Impedance matching

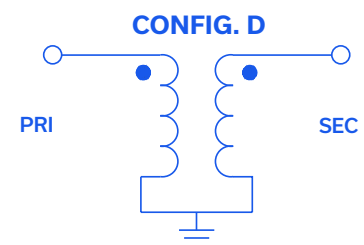
| Parameter                           | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|-------------------------------------|-----------------|------|------|------|------|
| Impedance Ratio (Secondary/Primary) |                 |      | 1.5  |      |      |
| Frequency Range                     |                 | 0.5  |      | 2200 | MHz  |
| Insertion Loss*                     | 0.5-2200        |      | 3    |      | dB   |
|                                     | 1-2000          |      | 2    |      |      |
|                                     | 2-1100          |      | 1    |      |      |

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



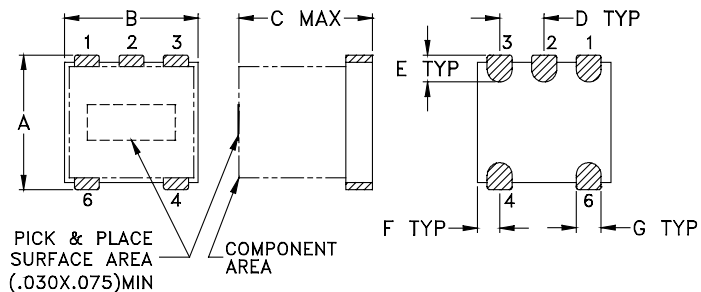


## PIN CONNECTIONS

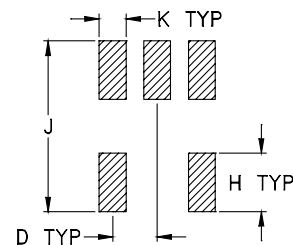
|               |     |
|---------------|-----|
| PRIMARY DOT   | 6   |
| PRIMARY       | 4   |
| SECONDARY DOT | 1   |
| SECONDARY     | 4   |
| NOT USED      | 2,3 |

PRODUCT MARKING: N/A

## OUTLINE DRAWING



## PCB Land Pattern



Suggested Layout,  
Tolerance to be within  $\pm.002$

OUTLINE DIMENSIONS (Inch  
mm)

| A    | B    | C    | D    | E    | F     |
|------|------|------|------|------|-------|
| .150 | .150 | .150 | .050 | .030 | .025  |
| 3.81 | 3.81 | 3.81 | 1.27 | 0.76 | 0.64  |
| G    | H    | J    | K    |      | wt    |
| .028 | .065 | .190 | .030 |      | grams |
| 0.71 | 1.65 | 4.83 | 0.76 |      | 0.10  |

## TAPE &amp; REEL INFORMATION: F17



## TYPICAL PERFORMANCE DATA

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 0.10            | 0.79                | 9.30               |
| 10.00           | 0.34                | 32.27              |
| 55.00           | 0.26                | 34.33              |
| 100.00          | 0.28                | 31.27              |
| 500.00          | 0.38                | 21.15              |
| 800.00          | 0.47                | 17.71              |
| 1200.00         | 0.59                | 15.28              |
| 1500.00         | 0.71                | 16.70              |
| 1950.00         | 1.04                | 25.47              |
| 2250.00         | 1.43                | 11.82              |



## 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.
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