# RF Transformer

T1-6T-X65

CASE STYLE: X65

0.015 to 300 MHz

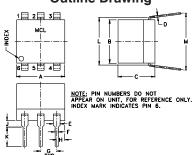
## **Maximum Ratings**

| 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 o | f these limits are exceede |

#### **Pin Connections**

| 4 |
|---|
| 6 |
| 3 |
| 1 |
| 2 |
| 5 |
|   |

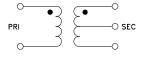
#### **Outline Drawing**



# Outline Dimensions (inch )

| Α    | В    | С    | D    | Е    | F    | G     |
|------|------|------|------|------|------|-------|
| .30  | .27  | .23  | .010 | .042 | .020 | .100  |
| 7.62 | 6.86 | 5.84 | 0.25 | 1.07 | 0.51 | 2.54  |
|      |      |      |      |      |      |       |
| Н    | J    | K    | L    | M    |      | wt    |
| .05  | .04  | .11  | .300 | .35  |      | grams |
| 1.27 | 1.02 | 2.79 | 7.62 | 8.89 |      | 0.50  |

### Config. A



#### **Features**

- wideband, 0.015 to 300 MHz
- excellent return loss
- also available with flat-pack (W38) & surface mount gull-wing (KK81) leads

### **Applications**

- VHF/UHF receivers/transmitters
- impedance matching

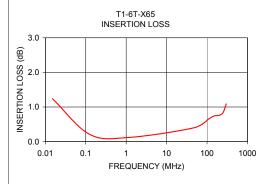
## **Transformer Electrical Specifications**

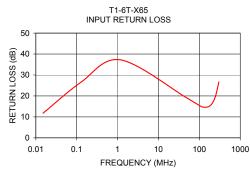
| RATIO | FREQUENCY<br>(MHz) | INSERTION LOSS* |             |             |
|-------|--------------------|-----------------|-------------|-------------|
|       |                    | 3 dB<br>MHz     | 2 dB<br>MHz | 1 dB<br>MHz |
| 1     | 0.015-300          | 0.015-300       | 0.021-150   | 0.03-50     |

\*Insertion Loss is referenced to mid-band loss, 0.1 dB typ.

### **Typical Performance Data**

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | INPUT<br>R. LOSS<br>(dB) |  |
|--------------------|---------------------------|--------------------------|--|
| 0.02               | 1.24                      | 11.77                    |  |
| 0.13               | 0.21                      | 26.45                    |  |
| 1.15               | 0.12                      | 37.26                    |  |
| 47.47              | 0.40                      | 19.27                    |  |
| 111.99             | 0.66                      | 14.92                    |  |
| 147.83             | 0.74                      | 14.64                    |  |
| 175.75             | 0.75                      | 15.08                    |  |
| 209.75             | 0.77                      | 16.64                    |  |
| 250.25             | 0.84                      | 20.06                    |  |
| 300.00             | 1.09                      | 26.64                    |  |





- 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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