

Plug-In RF Transformer

50Ω 0.3 to 120 MHz

TMO-16-1+



CASE STYLE: A11

+RoHS Compliant

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

Maximum Ratings

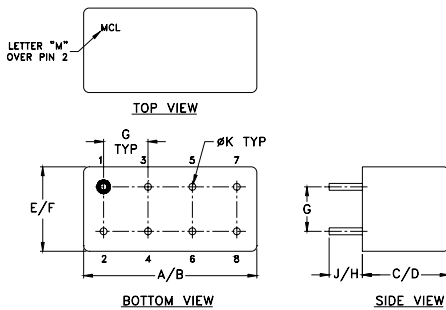
| | |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 250mW |
| DC Current | 30mA |

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

Pin Connections

| | |
|---------------|------|
| PRIMARY DOT | 1 |
| PRIMARY | 5 |
| SECONDARY DOT | 2 |
| SECONDARY | 6 |
| CASE GROUND | 7, 8 |
| NOT USED | 3, 4 |

Outline Drawing



Outline Dimensions (inch/mm)

| | | | | | |
|-------|-------|------|------|-------|------|
| A | B | C | D | E | F |
| .480 | .500 | .240 | .255 | .210 | .230 |
| 12.19 | 12.70 | 6.10 | 6.48 | 5.33 | 5.84 |
| G | H | J | K | wt | |
| .100 | .20 | .14 | .020 | grams | |
| 2.54 | 5.08 | 3.56 | 0.51 | 1.9 | |

Features

- good return loss
- hermetic case

Applications

- military, hi-rel requirements
- HF/VHF
- impedance matching

Transformer Electrical Specifications

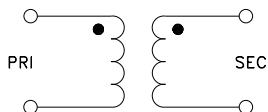
| Ω RATIO (Secondary/Primary) | FREQUENCY (MHz) | INSERTION LOSS* | | |
|-----------------------------------|--------------------|-----------------|-------------|-------------|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz |
| 16 | 0.3-120 | 0.3-120 | 0.7-80 | 5-20 |

*Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|--------------------|---------------------------|--------------------------|
| 0.30 | 2.37 | 7.37 |
| 0.50 | 1.89 | 10.14 |
| 2.52 | 1.03 | 17.74 |
| 6.25 | 0.77 | 21.40 |
| 15.71 | 0.79 | 14.20 |
| 20.13 | 0.82 | 12.18 |
| 40.31 | 0.95 | 6.96 |
| 74.29 | 1.27 | 3.41 |
| 100.51 | 1.67 | 2.28 |
| 120.00 | 1.96 | 1.78 |

Config. C



Notes

- 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.
- 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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