COAXIAL

# Adapter

# 10F-135F+

50Ω DC to 90 GHz 1.0 mm-Female to 1.35 mm-Female

## KEY FEATURES

- Wideband, DC to 90 GHz
- Low Insertion Loss, 0.27 dB Typ.
- Excellent VSWR, 1.08:1 Typ.
- Straight Body

*Generic photo used for illustration purposes only*

## PRODUCT OVERVIEW

Mini-Circuits' 10F-135F+ is a coaxial 1.0 mm Female to 1.35 mm Female adapter supporting a wide range of applications from DC to 90 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The 10F-135F+ features passivated stainless-steel construction and measures only 0.66" in length.

## ELECTRICAL SPECIFICATIONS AT +25°C

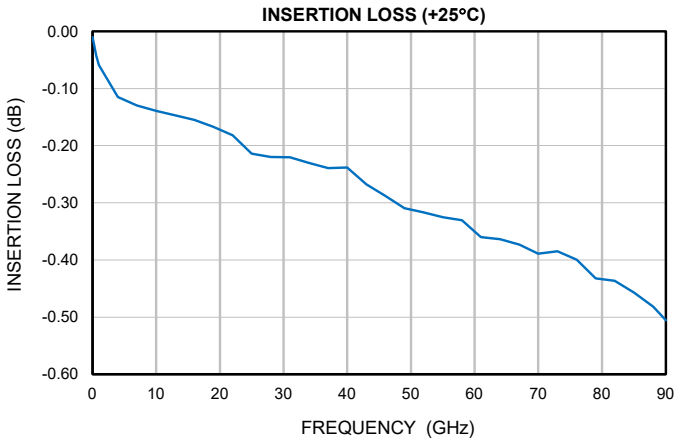
| Parameter | Frequency (GHz) | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|
| Frequency Range | | DC | | 90 | GHz |
| Insertion Loss | 0.01-30 | - | 0.13 | 0.66 | dB |
| | 30-60 | - | 0.28 | 0.66 | |
| | 60-90 | - | 0.41 | 0.66 | |
| VSWR | 0.01-30 | - | 1.06 | 1.32 | :1 |
| | 30-60 | - | 1.07 | 1.32 | |
| | 60-90 | - | 1.11 | 1.32 | |

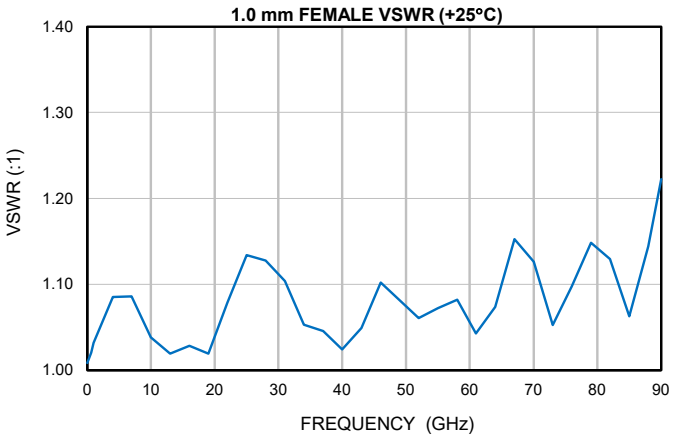
## ABSOLUTE MAXIMUM RATINGS[1]

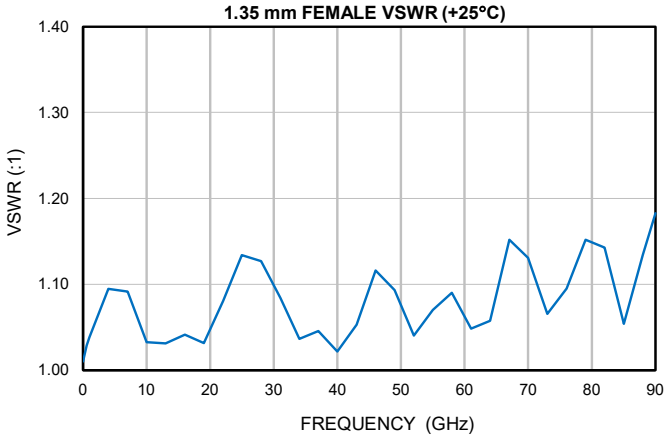
| | |
|---|---|
| **Operating Case Temperature** | -55°C to +100°C |
| **Storage Temperature** | -55°C to +100°C |

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

## TYPICAL PERFORMANCE GRAPHS



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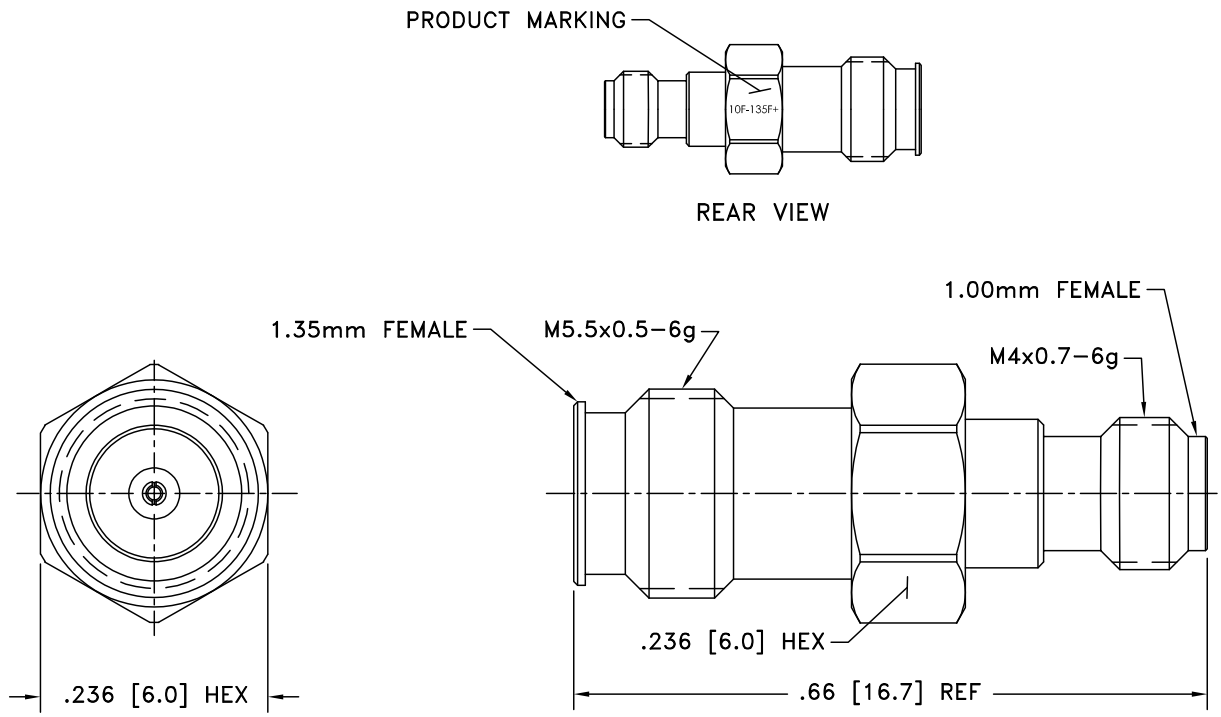
## CONNECTOR SPECIFICATIONS

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Connector Type | 1.0 mm Female | 1.35 mm Female |
| Orientation | Straight | Straight |

## CASE STYLE DRAWING




Weight: 1.8 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl.±.03; 3 Pl. ± .015 inches

**PRODUCT MARKING*:** 10F-135F+

*Marking may contain other features or characters for internal lot control.

## ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

| | |
|---|---|
| **Performance Data & Graphs** | Data<br>Graphs<br>S-Parameter (S2P Files) Data Set (.zip file) |
| **Case Style** | DJ3602-3 |
| **RoHS Status** | Compliant |
| **Environmental Ratings** | ENV89 |

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