

Coaxial

Adapter 1.85 mm-F to 2.92 mm-M

185F-KM+

50Ω DC to 40 GHz

The Big Deal

- Ultra-wideband, DC-40 GHz
- Flat response
- Low insertion loss, 0.11 dB
- Excellent VSWR, 1.04:1



CASE STYLE: DJ2383-1

Product Overview

Mini-Circuits' 185F-KM+ is a coaxial 1.85 mm-F to 2.92 mm-M adapter supporting a wide range of applications from DC to 40 GHz. This model provides excellent VSWR, low insertion loss, and flat response versus frequency. The 185F-KM+ features passivated stainless steel construction and measures only 0.79" in length.

Key Features

| Feature | Advantages |
|--|---|
| Wideband, DC to 40 GHz | Wide frequency range provides application flexibility and makes this model ideal for broad-band and multi-band use. |
| Excellent VSWR, 1.04:1 | Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range. |
| Low insertion loss, 0.11 dB | Provides excellent signal power transmission from input to output. |
| Passivated stainless steel construction. | Stands up to wear and tear in demanding environments and provides excellent reliability. |
| Very wide operating temperature range, -55 to +100°C | Withstands extreme operating conditions and is suitable for use near high power components where heat rise is common. |

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/MCLStore/terms.jsp



Coaxial Adapter

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50Ω DC to 40 GHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

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

Features

- flat response
- excellent VSWR, 1.04 typ.
- low cost adapters, available from stock
- stainless steel body, passivated

Applications

- interconnection of RF cable and equipment

185F-KM+



CASE STYLE: DJ2383-1

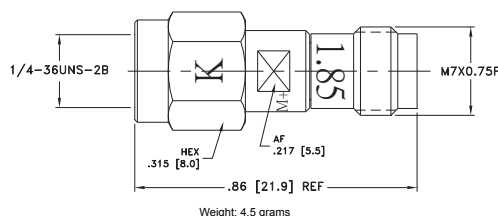
| Connectors | Model |
|----------------------|----------|
| 1.85mm-F to 2.92mm-M | 185F-KM+ |

+RoHS Compliant

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

Outline Dimensions

inches (mm)

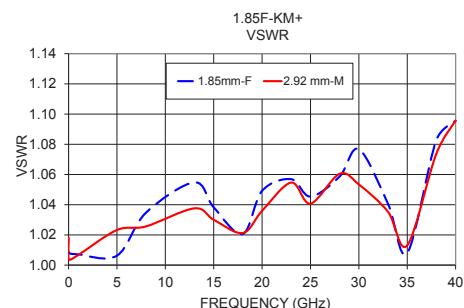
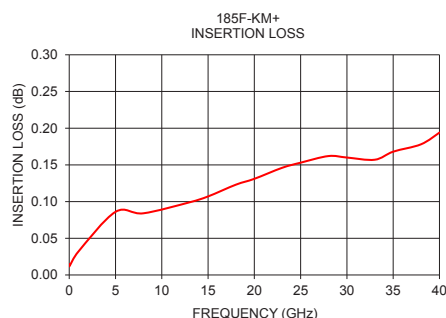


Electrical Specifications at 25°C

| Parameter | Condition (GHz) | Min. | Typ. | Max. | Units |
|-----------------|-----------------|------|------|------|-------|
| Frequency Range | | DC | | 40 | GHz |
| Insertion Loss | DC - 8 | — | 0.05 | 0.3 | dB |
| | 8 - 18 | — | 0.11 | 0.3 | |
| | 18 - 26.5 | — | 0.15 | 0.3 | |
| | 26.5 - 40 | — | 0.20 | 0.6 | |
| VSWR | DC - 8 | — | 1.01 | 1.15 | :1 |
| | 8 - 18 | — | 1.04 | 1.15 | |
| | 18 - 26.5 | — | 1.06 | 1.15 | |
| | 26.5 - 40 | — | 1.05 | 1.15 | |

Typical Performance Data

| Frequency (GHz) | Insertion Loss (dB) | VSWR (:1) | |
|-----------------|---------------------|-----------|-----------|
| | | 1.85 mm-F | 2.92 mm-M |
| 0.01 | 0.02 | 1.01 | 1.02 |
| 0.03 | 0.01 | 1.01 | 1.00 |
| 1.0 | 0.03 | 1.01 | 1.01 |
| 5.0 | 0.09 | 1.01 | 1.02 |
| 8.0 | 0.08 | 1.03 | 1.03 |
| 13.0 | 0.10 | 1.05 | 1.04 |
| 15.0 | 0.11 | 1.04 | 1.03 |
| 18.0 | 0.12 | 1.02 | 1.02 |
| 20.0 | 0.13 | 1.05 | 1.04 |
| 23.0 | 0.15 | 1.06 | 1.05 |
| 25.0 | 0.15 | 1.05 | 1.04 |
| 28.0 | 0.16 | 1.06 | 1.06 |
| 30.0 | 0.16 | 1.08 | 1.05 |
| 33.0 | 0.16 | 1.04 | 1.04 |
| 35.0 | 0.17 | 1.01 | 1.01 |
| 38.0 | 0.18 | 1.08 | 1.07 |
| 40.0 | 0.19 | 1.10 | 1.10 |



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