



COAXIAL

Adapter

185F-KF+

50Ω DC to 40 GHz 1.85 mm-Female to 2.92 mm-Female

THE BIG DEAL

- Ultra Wideband, DC to 40 GHz
- Flat Response
- Low Insertion Loss, 0.13 dB typ.
- Excellent VSWR, 1.05:1 typ.



Generic photo used for illustration purposes only

APPLICATIONS

- Interconnection of RF cable and equipment

| | |
|------------|------------------------|
| Model No. | 185F-KF+ |
| Case Style | DJ2381-1 |
| Connectors | 1.85 mm-F to 2.92 mm-F |

+RoHS Compliant

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

PRODUCT OVERVIEW

Mini-Circuits' 185F-KF+ is a coaxial 1.85 mm-F to 2.92 mm-F 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-KF+ features passivated stainless steel construction and measures only 0.82" in length.

KEY FEATURES

| Features | Advantages |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Wideband, DC to 40 GHz | Wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use. |
| Excellent VSWR, 1.05:1 | Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range. |
| Low Insertion Loss, 0.13 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 componentry where heat rise is common. |



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ELECTRICAL SPECIFICATIONS AT 25°C

| Parameter | Condition (GHz) | Min. | Typ. | Max. | Units |
|-----------------|-----------------|------|------|------|-------|
| Frequency Range | | DC | | 40 | GHz |
| Insertion Loss | DC - 8 | — | 0.06 | 0.2 | dB |
| | 8 - 18 | — | 0.13 | 0.3 | |
| | 18 - 26.5 | — | 0.17 | 0.3 | |
| | 26.5 - 40 | — | 0.19 | 0.4 | |
| VSWR | DC - 8 | — | 1.01 | 1.15 | :1 |
| | 8 - 18 | — | 1.05 | 1.15 | |
| | 18 - 26.5 | — | 1.06 | 1.15 | |
| | 26.5 - 40 | — | 1.05 | 1.15 | |

ABSOLUTE MAXIMUM RATINGS

| Parameter | 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.



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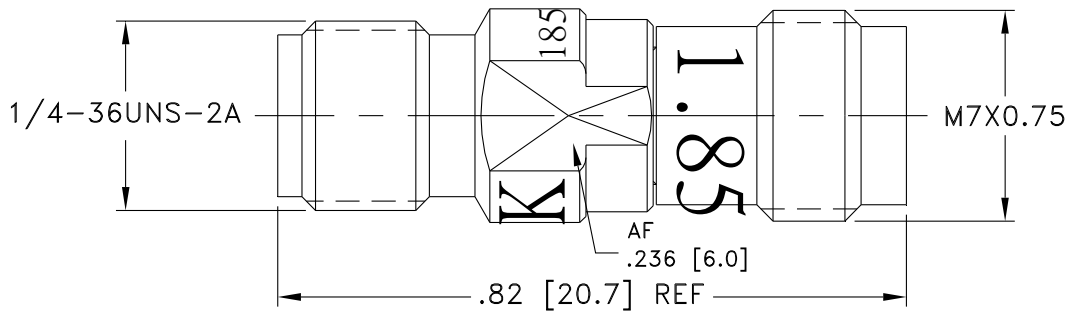
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COAXIAL CONNECTIONS

| | |
|-------------|-----------|
| Connector 1 | 1.85 mm-F |
| Connector 2 | 2.92 mm-F |

OUTLINE DRAWING



Weight: 3.3 grams
Dimensions in inches [mm]