Coaxial

Adapter 2.92 mm-F to 2.4 mm-F

KF-24F+

50 Ω DC to 40 GHz

The Big Deal

- Ultra-wideband, DC-40 GHz
- Flat response
- Low insertion loss, 0.10 dB
- Excellent VSWR, 1.09:1



CASE STYLE: DJ2381

Product Overview

Mini-Circuits' KF-24F+ is a coaxial 2.92 mm-F to 2.4 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 KF-24F+ features passivated stainless steel construction and measures only 0.8" (I) x 0.28" (dia.).

Key Features

| Feature | 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, 1.09:1 | Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range. |
| Low insertion loss, 0.10 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. |

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.ninicircuits.com/MCLStore/terms.jsp

Adapter 2.92 mm-F to 2.4 mm-F

DC to 40 GHz 50Ω

Maximum Ratings

Operating Temperature -55°C to 100°C -55°C to 100°C Storage Temperature

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

Features

- flat response
- excellent VSWR, 1.09 typ. up to 20 GHz and 1.12 typ. up to 40 GHz
- · low cost adapters, available from stock
- stainless steel body, passivated

Applications

• interconnection of RF cable and equipment

KF-24F+



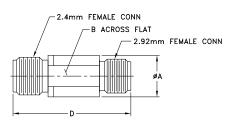
CASE STYLE: DJ2381

| Connectors | Model | | |
|-----------------------|---------|--|--|
| 2 92 mm-F to 2 4 mm-F | KE-24E+ | | |

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch mm)

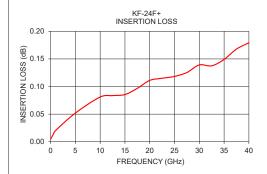
| wt | Ε | D | С | В | Α |
|-------|---|-------|---|-------|------|
| grams | | 0.80 | | 0.236 | 0.28 |
| 3.0 | | 20.32 | | 5.99 | 7.00 |

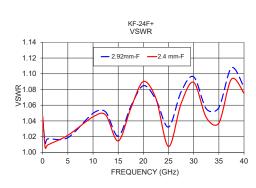
Electrical Specifications at 25°C

| Parameter | Condition (GHz) | Min. | Тур. | Max. | Units |
|-----------------|-----------------|------|------|------|-------|
| Frequency Range | | DC | | 40 | GHz |
| | DC - 5 | _ | 0.03 | _ | dB |
| Insertion I are | 5 - 10 | _ | 0.07 | _ | |
| Insertion Loss | 10 - 20 | _ | 0.10 | _ | |
| | 20 - 40 | _ | 0.15 | 0.6 | |
| | DC - 5 | _ | 1.05 | 1.15 | |
| VSWR | 5 - 10 | _ | 1.06 | 1.15 | :1 |
| VOVVN | 10 - 20 | _ | 1.09 | 1.15 | .1 |
| | 20 - 40 | _ | 1.12 | 1.15 | |

Typical Performance Data

| Frequency (GHz) | Insertion Loss (dB) | VSWR (:1) | | |
|--------------------|------------------------|--------------|----------|--|
| | | 2.92 mm-F | 2.4 mm-F | |
| 0.01 | 0.004 | 1.04 | 1.05 | |
| 0.5 | 0.013 | 1.01 | 1.01 | |
| 1.0 | 0.020 | 1.02 | 1.01 | |
| 5.0 | 0.052 | 1.02 | 1.02 | |
| 10.0 | 0.081 | 1.05 | 1.05 | |
| 12.5 | 0.084 | 1.05 | 1.05 | |
| 15.0 | 0.085 | 1.02 | 1.01 | |
| 17.5 | 0.097 | 1.06 | 1.06 | |
| 20.0 | 0.111 | 1.08 | 1.09 | |
| 22.5 | 0.115 | 1.07 | 1.07 | |
| 25.0 | 0.118 | 1.03 | 1.01 | |
| 27.5 | 0.125 | 1.08 | 1.06 | |
| 30.0 | 0.139 | 1.10 | 1.09 | |
| 32.5 | 0.137 | 1.06 | 1.04 | |
| 35.0 | 0.149 | 1.06 | 1.04 | |
| 37.5 | 0.168 | 1.11 | 1.09 | |
| 40.0 | 0.179 | 1.08 | 1.08 | |
| | | | | |





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