

Coaxial

Adapter 2.92 mm-F to 2.4 mm-F with Bulkhead

24B-KB+

50Ω DC to 40 GHz

The Big Deal

- Ultra-wideband, DC-40 GHz
- Flat response
- Low insertion loss, 0.16 dB@20 GHz
- Excellent VSWR, 1.07:1 @20 GHz



CASE STYLE: DJ3049

Product Overview

Mini-Circuits' 24B-KB+ is a coaxial 2.92 mm-F to 2.4 mm-F with bulkhead 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 24B-KB+ features passivated stainless steel construction and measures only 0.74" (l) x 0.43" (dia.).

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, 1.07:1 @20 GHz | Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range. |
| Low insertion loss, 0.16 dB @20 GHz | Provides excellent signal power transmission from input to output. |
| Bulkhead | Useful for installation on front panel of rack mount equipment. |
| 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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24B-KB+



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| Connectors | Model |
|-----------------------|---------|
| 2.92 mm-F to 2.4 mm-F | 24B-KB+ |

+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

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

Features

- flat response
- excellent VSWR, 1.07 typ. @ 20 GHz and 1.09 typ. up to 40 GHz
- low cost adapters, available from stock
- stainless steel body, passivated

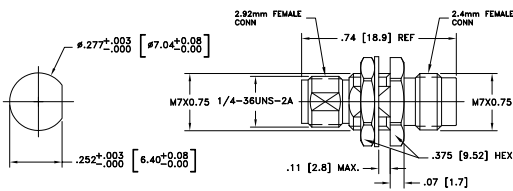
Applications

- rack mount equipment
- lab nest

Electrical Specifications at 25°C

| Parameter | Condition (GHz) | Min. | Typ. | Max. | Units |
|-----------------|-----------------|------|------|------|-------|
| Frequency Range | | DC | | 40 | GHz |
| Insertion Loss | DC - 40 | - | 0.14 | 0.4 | dB |
| VSWR | DC - 40 | | 1.05 | 1.25 | :1 |

Outline Drawing

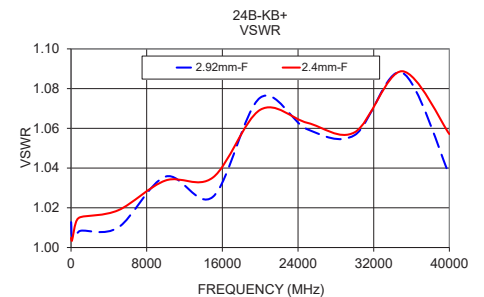
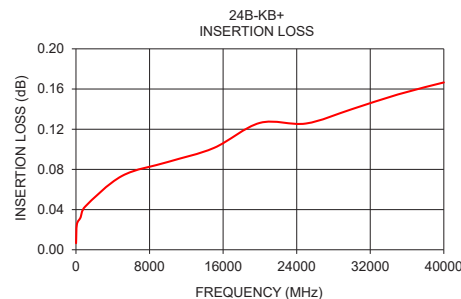


Weight: 4.3 grams

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

Typical Performance Data

| Frequency (GHz) | Insertion Loss (dB) | VSWR (:1) | |
|-----------------|---------------------|-----------|----------|
| | | 2.92 mm-F | 2.4 mm-F |
| 10 | 0.01 | 1.01 | 1.00 |
| 100 | 0.03 | 1.01 | 1.00 |
| 500 | 0.03 | 1.01 | 1.01 |
| 1000 | 0.04 | 1.01 | 1.02 |
| 5000 | 0.07 | 1.01 | 1.02 |
| 10000 | 0.09 | 1.04 | 1.03 |
| 15000 | 0.10 | 1.03 | 1.04 |
| 20000 | 0.13 | 1.08 | 1.07 |
| 25000 | 0.13 | 1.06 | 1.06 |
| 30000 | 0.14 | 1.06 | 1.06 |
| 35000 | 0.15 | 1.09 | 1.09 |
| 40000 | 0.17 | 1.04 | 1.06 |



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