

ADP-2.4F-2.92F 2.4 mm Jack to 2.92 mm Jack Adapter

The ADP-2.4F-2.92F is a 2.4 mm jack to 2.92 mm jack adapter. Operating from 0 Hz to 40 GHz, the ADP-2.4F-2.92F combines superior performance, compact size, and a convenient threaded mating interface to provide a reliable, easy-to-use adapter. Linx 2.4 mm and 2.92 mm adapters are ideal for precision applications. Additionally, all Linx adapters meet RoHS lead free standards and are tested to meet requirements for corrosion resistance, vibration, mechanical and thermal shock.



Features

- 0 Hz to 40 GHz operation
- Passivated stainless steel body
 - Superior corrosion resistance
- 2.4 mm jack (female socket) connection
 - Gold plated beryllium copper center contact
- 2.92 mm jack (female socket) connection
 - Gold plated beryllium copper center contact

Applications

- Radar, Satellite Communications, Experimental
- Industrial, Commercial, Enterprise
- Test and measurement

Table 1. Electrical Specifications

| Parameter | Value |
|--------------------------|--|
| Impedance | 50 Ω |
| Frequency Range | 0 to 40 GHz |
| Contact Resistance | Center: ≤ 6.0 m Ω Outer: ≤ 2.0 m Ω |
| Insertion Loss (dB max.) | 1.0 |
| VSWR (max.) | 1.4 |

Ordering Information

| Part Number | Description |
|----------------|---|
| ADP-2.4F-2.92F | 2.4 mm jack (female socket) to 2.92 mm jack (female socket) adapter |

Available from Linx Technologies and select distributors and representatives.

Product Dimensions

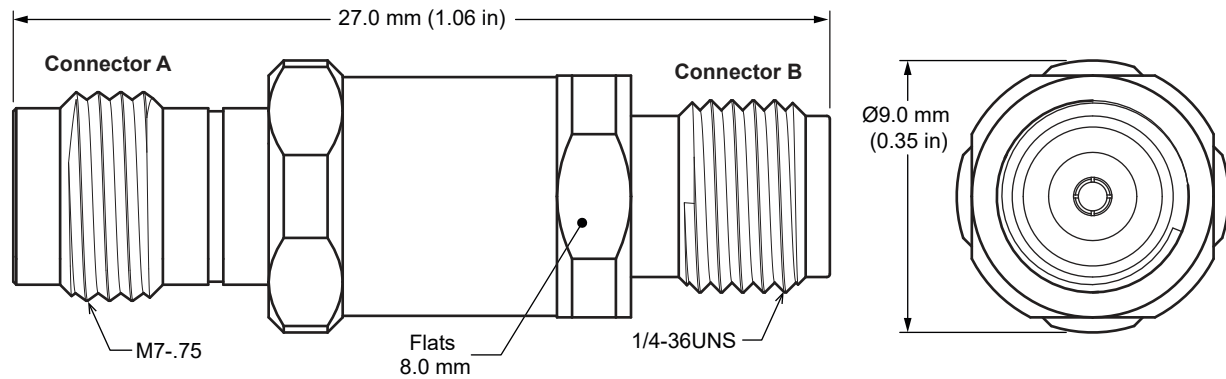


Figure 1. Product Dimensions for the ADP-2.4F-2.92F Adapter

Table 2. Adapter Components

| ADP-2.4F-2.92F | Connector A 2.4 mm jack (female socket) | | Connector B 2.92 mm jack (female socket) | |
|----------------|--|-------------|---|-------------|
| Connector Part | Material | Finish | Material | Finish |
| Body | Stainless Steel | Passivated* | Stainless Steel | Passivated* |
| Center Contact | Beryllium Copper | Gold | Beryllium Copper | Gold |
| Insulator | Air | — | Air | — |

*Use of stainless steel tools may damage passivated finish.

Adapter Performance

Table 3 shows insertion loss and VSWR values for the ADP-2.4F-2.92F adapter at commonly used frequencies.

Insertion loss is the loss of signal power (gain) resulting from the insertion of a device in a transmission line. VSWR describes how efficiently power is transmitted through the adapter. A lower VSWR value indicates better performance at a given frequency.

Table 3. Insertion Loss and VSWR for the ADP-2.4F-2.92F Adapter

| Band | Ku | K | Ka |
|--------------------------|------------------|------------------|------------------|
| Frequency Range | 12 GHz to 18 GHz | 18 GHz to 27 GHz | 27 GHz to 40 GHz |
| Insertion Loss (dB max.) | 0.9 | 1.0 | 1.0 |
| VSWR (max.) | 1.2 | 1.1 | 1.4 |

Table 4. Mechanical Specifications

| ADP-2.4F-2.92F | Connector A 2.4 mm jack (female socket) | Connector B 2.92 mm jack (female socket) |
|------------------------------|--|---|
| Mounting Type | Inline, Free-hanging | |
| Fastening Type | M7 Threaded Coupling | 1/4-36UNS Threaded Coupling |
| Interface in Accordance with | IEC-61169-40 | IEC-61169-40 |
| Durability | 500 cycles min. | 500 cycles min. |
| Recommended Torque | 8.0 in.-lbs | 8.0 in.-lbs |
| Weight | 6.5 g (0.23 oz) | |

Table 5. Environmental Specifications

| MIL-STD, Method, Test Condition | |
|---------------------------------|---|
| Corrosion (Salt spray) | MIL-STD-202 Method 101 test condition B |
| Thermal Shock | MIL-STD-202 Method 107 test condition C |
| Vibration | MIL-STD-202 Method 204 test condition B |
| Mechanical Shock | MIL-STD-202 Method 213 test condition B |
| Moisture Resistance | MIL-STD-202 Method 106 test condition D |
| Temperature Range | -40 °C to +105 ° C |
| Environmental Compliance | RoHS |

Packaging Information

The ADP-2.4F-2.92F adapter is placed in an ESD safe plastic bag and sealed in Polyethylene bags of 25 pcs. Four bags (100 pcs.) are packaged in a box. Distribution channels may offer alternative packaging options. The 2.4mm connector end is protected by a blue LDPE plastic cap and the 2.92mm connector end is protected by a clear LDPE plastic cap.

Website: <http://linxtechnologies.com>
Linx Offices: 159 Ort Lane, Merlin, OR, US 97532
Phone: +1 (541) 471-6256
E-MAIL: info@linxtechnologies.com

Linx Technologies reserves the right to make changes to the product(s) or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.

Wireless Made Simple is a registered trademark of Linx Acquisitions LLC. Other product and brand names may be trademarks or registered trademarks of their respective owners.

Copyright © 2022 Linx Technologies

All Rights Reserved

Doc# DS22210-250CON

