





# **ADP-2.4F-2.4F**

2.4 mm Jack to 2.4 mm Jack Adapter

The ADP-2.4F-2.4F is a 2.4 mm jack to 2.4 mm jack adapter. Operating from 0 Hz to 50 GHz, the ADP-2.4F-2.4F combines superior performance, compact size, and a convenient threaded mating interface to provide a reliable, easy-to-use adapter. Linx 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 50 GHz operation
- Passivated stainless steel body
  - Superior corrosion resistance
- 2.4 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 50 GHz	
Contact Resistance	Center: ≤ 6.0 mΩ Outer: ≤ 2.0 mΩ	
Insertion Loss (dB max.)	1.0	
VSWR (max.)	1.3	

#### **ORDERING INFORMATION**

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

Available from Linx Technologies and select distributors and representatives.

## **PRODUCT DIMENSIONS**

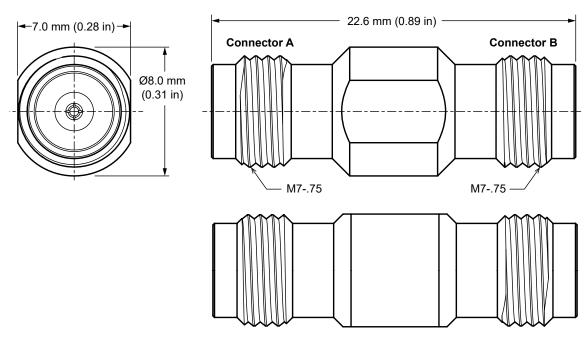


Figure 1: Product Dimensions for the ADP-2.4F-2.4F Adapter

#### **TABLE 2. ADAPTER COMPONENTS**

ADP-2.4F-2.4F	Connector A 2.4 mm jack (female socket)			ector B 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	-

<sup>\*</sup>Use of stainless steel tools may damage passivated finish.

#### **ADAPTER PERFORMANCE**

Table 3 shows insertion loss and VSWR values for the ADP-2.4F-2.4F 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-2.4F ADAPTER

Band	Ku	К	Ka	Q
Frequency Range	12 GHz to 18 GHz	18 GHz to 27 GHz	27 GHz to 40 GHz	33 GHz to 50 GHz
Insertion Loss (dB max.)	0.2	1.0	0.8	1.0
VSWR (max.)	1.1	1.2	1.2	1.3

#### **TABLE 4. MECHANICAL SPECIFICATIONS**

ADP-2.4F-2.4F	Connector A 2.4 mm jack (female socket)	Connector B 2.4 mm jack (female socket)	
Mounting Type	Inline, Free-hanging		
Fastening Type	M7 Threaded Coupling	M7 Threaded Coupling	
Interface in Accordance with	IEC-61169-40	IEC-61169-40	
Durability	500 cycles min.	500 cycles min.	
Recommended Torque	8.0 inlbs	8.0 inlbs	
Weight	4.8 g (0.17 oz)		

#### **TABLE 5. ENVIRONMENTAL SPECIFICATIONS**

ADP-2.4F-2.4F	Connector A 2.4 mm jack (female socket)	Connector B 2.4 mm jack (female socket)	
Mounting Type	Inline, Free-hanging		
Fastening Type	M7 Threaded Coupling	M7 Threaded Coupling	
Interface in Accordance with	IEC-61169-40	IEC-61169-40	
Durability	500 cycles min.	500 cycles min.	
Recommended Torque	8.0 inlbs	8.0 inlbs	
Weight	4.8 g (0.17 oz)		

#### **PACKAGING INFORMATION**

The ADP-2.4F-2.4F 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. Connector ends are protected by a blue LDPE plastic cap.

#### TE TECHNICAL SUPPORT CENTER

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