

Swivel Joint SMA Female to SMA Female rated to 6 GHz



## LCAD1405

### Features

- Max VSWR of 1.3:1 up to 6 GHz
- Rotated at the center over 360 Degrees
- Phase rotational effect variation (WOW) of  $\leq \pm 0.5^\circ$  around the axis
- VSWR of 1.3:1 with rotational effect variation (WOW)  $\leq \pm 0.03$  around the axis
- Insertion Loss  $< 0.04$  dB at 6GHz with rotational effect variation (WOW) of  $\leq \pm 0.03$  with rotation around the axis

### Applications

- General Purpose
- Commercial and Military Radar
- Land-Mobile-Radio (LMR) Communications
- Anti-Missile Defense
- SatCom

### Description

L-Com's Swivel Joint Adapter LCAD1405 is in stock and ready to ship on the same-day of order. The Swivel SMA plug to SMA plug 6 GHz VSWR 1.3 is part of our full line of RF components. The swivel joints are used to transfer RF signals between stationary and movable parts of a communications system, commonly used in commercial and military radar, land-mobile-radio communications, and anti-missile defense applications.

These SMA plug to SMA plug swivel joint adapters boast a compact design, excellent VSWR of 1.3:1, low insertion loss and minimal variation of RF performance during rotation. When rotating the LCAD1405 around the center axis, the performance specifications vary minimally, with a phase rotational effect (WOW)\* of  $\leq \pm 0.5^\circ$ , VSWR WOW of  $\leq \pm 0.03$ , and Insertion Loss of  $\leq \pm 0.03$  dB.

Contact L-Com's expert technical support for assistance with the swivel joint adapter or any rotary joints. Download our LCAD1405 datasheet with specifications and CAD drawing with dimensions for details. Our knowledgeable sales team simplifies the purchasing process and ensures that your swivel joint adapter will be exact to specification.

The rotary joint LCAD1405 from L-Com, with a maximum frequency of 6 GHz, can be rotated through the center axis in 360 degrees to allow for rotating equipment to be installed to stationary equipment. Order your Rotary/Swivel Joint Adapter LCAD1405 today from L-Com. There is no MOQ (minimum order quantity) and the product ships same day from our warehouse.

\*WOW is the change in performance of a specification with rotation around an axis, calculated as the difference between the minimum and maximum values observed in one 360° rotation around that axis.

### Configuration

Connector 1	SMA Female
Connector 2	SMA Female
Adapter Design	Standard
Design Type	Swivel

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Swivel Joint SMA Female to SMA Female rated to 6 GHz LCAD1405](#)

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Insertion Loss	0.4	dB
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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 3	3 to 6				GHz
VSWR	1.15:1	1.3:1				
VSWR RV*	0.02:1	0.03:1				
Insertion Loss	0.2	0.4				dB
Insertion Loss RV*	0.02	0.03				dB
Phase RV*	0.3	0.5				Degrees

\*RV = Rotational Variance

### Mechanical Specifications

#### Size

Length	1.671 in [42.44 mm]
Width	0.948 in [24.08 mm]
Height	0.354 in [8.99 mm]
Weight	0.05 lbs [22.68 g]

#### Connectors

Description	Connector 1	Connector 2
TType	SMA Female	SMA Female
Inner Conductor Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Body Material and Plating	Brass, Gold over Nickel over Copper	Brass, Gold over Nickel over Copper

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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Swivel Joint SMA Female to SMA Female rated to 6 GHz from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing

