

Swivel Joint SMA Male to SMA Male Adapter Operating to 6 GHz

Fairview Microwave's FMAD1403 Swivel Joint Operating to 6 GHz, SMA Male to SMA Male Adapter is part of our full line of RF components available for same-day shipping. Swivel Joints are used to transfer RF signals between stationary and movable parts of a communications system. Fairview Microwave's Swivel Joints boast a compact design, excellent VSWR, low insertion loss and minimal variation of RF performance during rotation. These adapters can be rotated through the center axis in 360 degrees to allow for rotation equipment to be installed to stationary equipment and have a long service life.

Configuration

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

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss		0.4		dB

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 3	3 to 6				GHz
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]



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

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
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

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

Plotted and Other Data

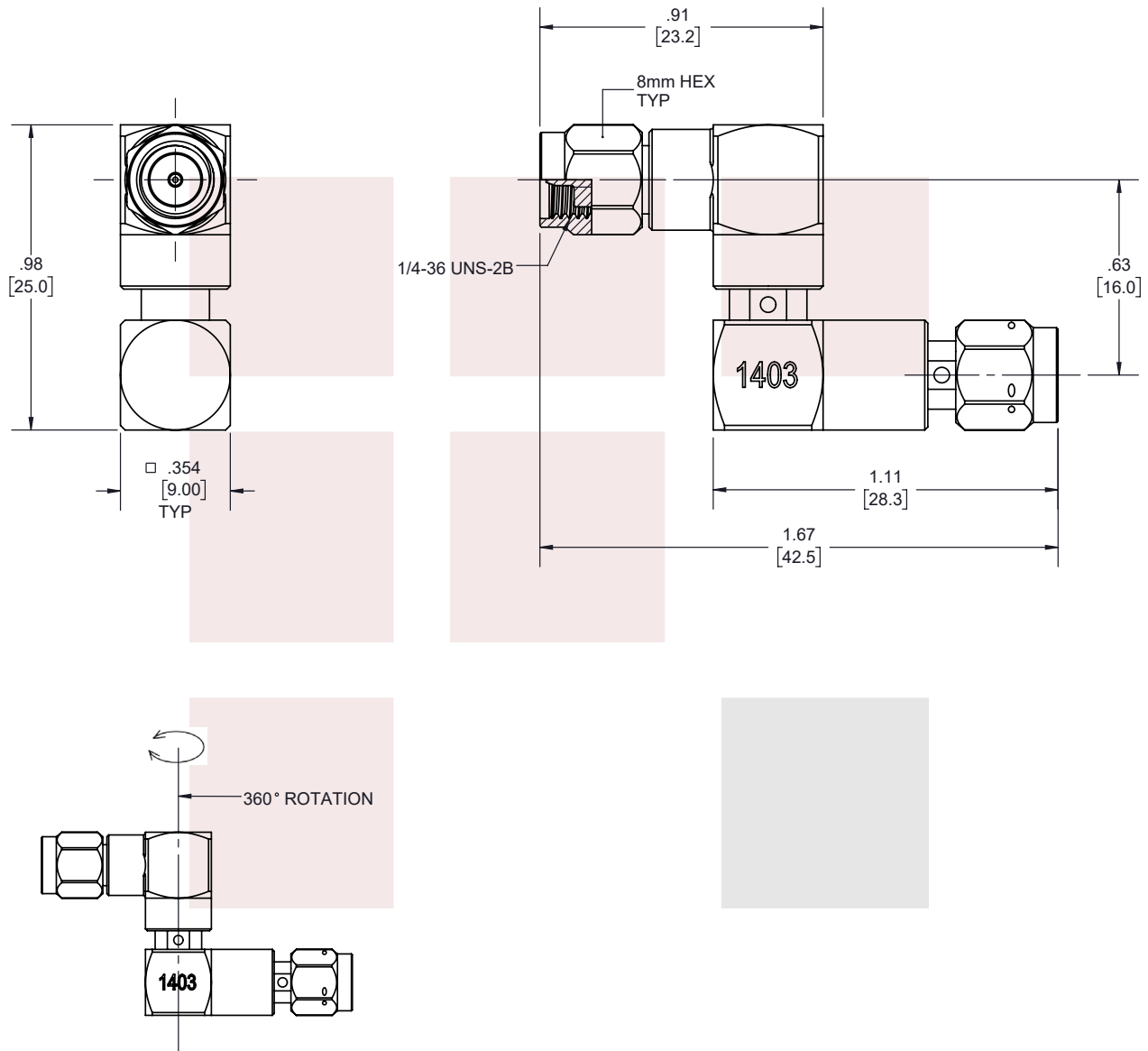
Swivel Joint SMA Male to SMA Male Adapter Operating to 6 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Swivel Joint SMA Male to SMA Male Adapter Operating to 6 GHz FMAD1403](#)

URL: <https://www.fairviewmicrowave.com/swivel-joint-sma-male-to-sma-male-adapter-operating-to-6-ghz-fmad1403-p.aspx>

The information contained in 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 implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/20/2022	A. GANWANI



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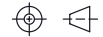
TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ± .02 [.51]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0
.XX = ± .005 [.13]	ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
		60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMAD1403	REV A
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T-Rev.D