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*Southwest Microwave Adapters are considered in-between metrology and instrument grades.  
Our adapters would best be described as “Precision Grade” which are ideally suited for production tests.*

### N to Super SMA Adapters

#### DC to 18.0 GHz

#### Application:

- DC to 18.0 GHz High Performance

#### Features:

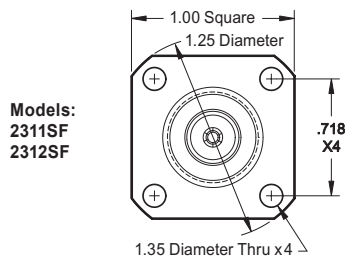
- Mode Free Through 18.0 GHz.
- Low VSWR:  
DC to 18.0 GHz.....1.15:1 max.
- Performance Consistency Unit-to-unit
- Temperature Rating -55°C to +165°C

#### Interface:

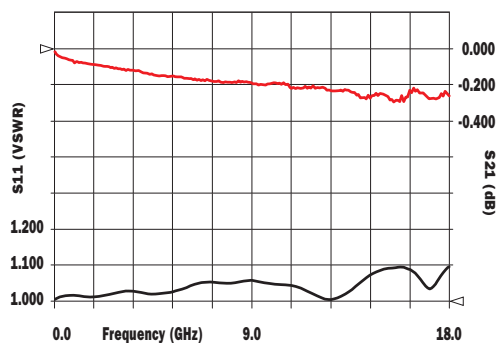
- Per MIL-STD-348  
SMA Figs. 310-1 and 310-2  
N Figs. 304-1 and 304-2

#### Construction:

- Housing: Stainless Steel, Passivated
- Contact: Beryllium Copper (BeCu)  
Gold Plated Per MIL-G-45204
- Dielectric:  
PTFE Fluorocarbon Per ASTM D 1457
- Center Contact Capture:  
Ultem 1000 Per ASTM D 5205



N to SMA Adapter (Model # 2320SF) Test Data

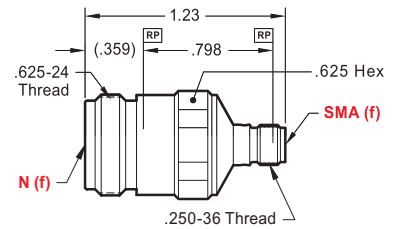


#### N (f) to SMA (f)

(18 GHz)



Model 2310SF

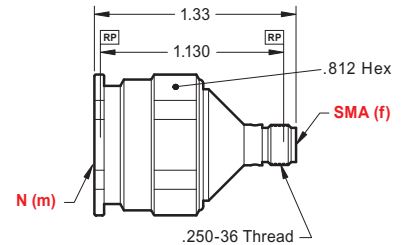


#### N (m) to SMA (f)

(18 GHz)



Model 2320SF

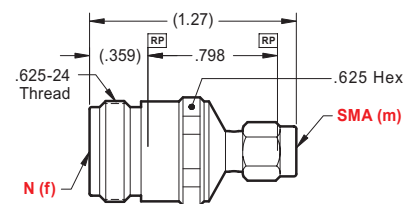


#### N (f) to SMA (m)

(18 GHz)



Model 2330SF

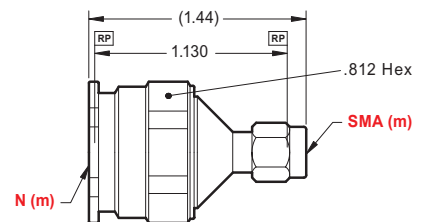


#### N (m) to SMA (m)

(18 GHz)



Model 2340SF

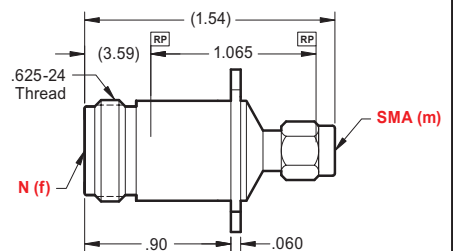


#### N (f) to SMA (m)

(18 GHz)



Model 2311SF

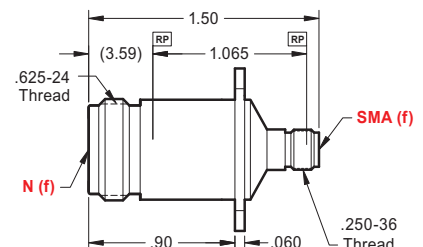


#### N (f) to SMA (f)

(18 GHz)



Model 2312SF



All Southwest Microwave Models are Suitable for Space / Hi-Rel Applications (see page 109).

### Super SMA Adapters

DC to 27.0 GHz

**Application:**

- DC to 27.0 GHz High Performance

**Features:**

- Mode Free Through 27.0 GHz.
- Low VSWR:  
DC to 18.0 GHz.....1.10:1 max.  
18.0 to 27.0 GHz.....1.15:1 max.
- Minimum VSWR Contribution When Used as Connector Savers
- Performance Consistency Unit-to-unit
- Temperature Rating -55°C to +165°C

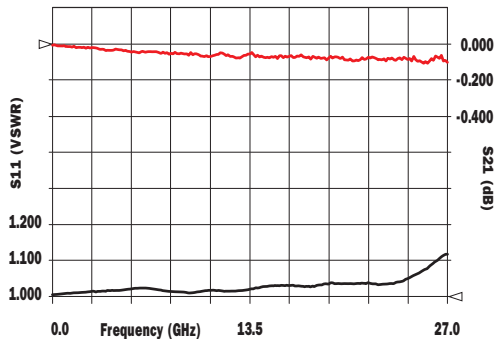
**Interface:**


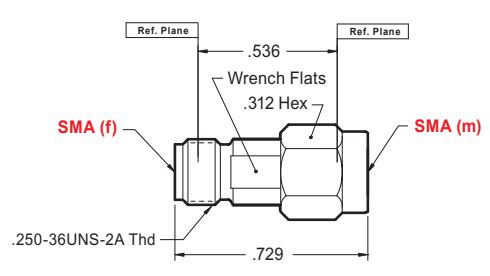

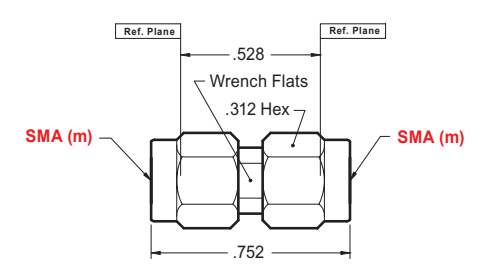

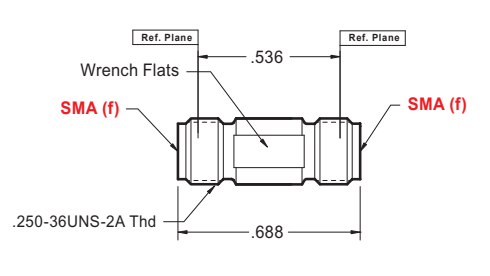

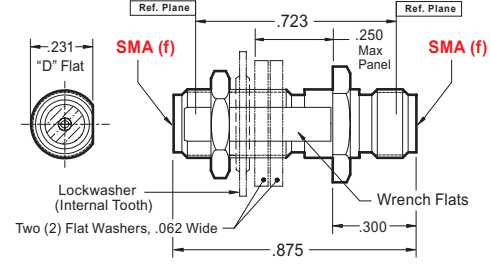
- Per MIL-STD-348  
SMA Figs. 310-1 and 310-2

**Construction:**

- Housing: Stainless Steel, Passivated
- Contact: Beryllium Copper (BeCu)  
Gold Plated Per MIL-G-45204
- Dielectric:  
PTFE Fluorocarbon Per ASTM D 1457
- Center Contact Capture:  
Ultem 1000 Per ASTM D 5205

Super SMA Adapter (Model # 232-502SF) Test Data



<p><b>SMA (m) to (f)</b> (27 GHz)</p>  <p><b>Model 230-506SF</b></p>	
<p><b>SMA (m) to (m)</b> (27 GHz)</p>  <p><b>Model 231-502SF</b></p>	
<p><b>SMA (f) to (f)</b> (27 GHz)</p>  <p><b>Model 232-502SF</b></p>	
<p><b>SMA (f) to (f)</b> Bulkhead (27 GHz)</p>  <p><b>Model 232-510SF</b></p>	

All Southwest Microwave Models are Suitable for Space / Hi-Rel Applications (see page 109).

### 3.5 mm to 2.40 mm

#### DC to 33.0 GHz

#### Application:

- DC to 33.0 GHz High Performance

#### Features:

- Mode Free Through 33.0 GHz.
- Low VSWR:  
DC to 27.0 GHz.....1.10:1 max.  
27.0 to 33.0 GHz.....1.15:1 max.
- Performance Consistency Unit-to-unit
- Temperature Rating -55°C to +135°C

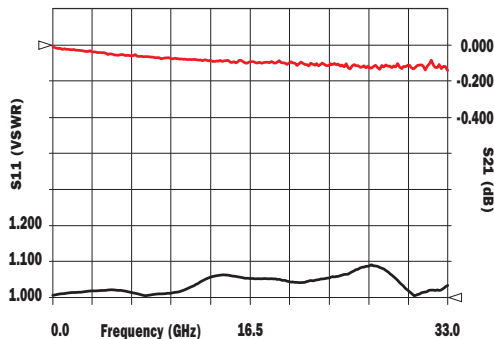
#### Interface:


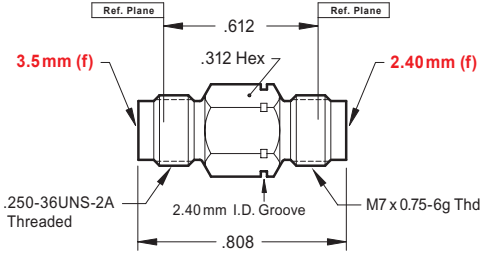

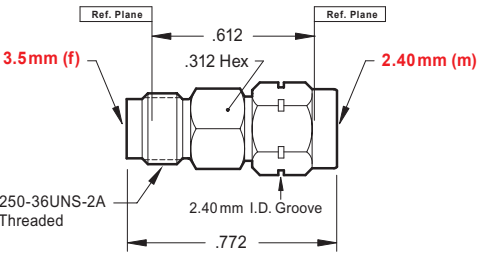

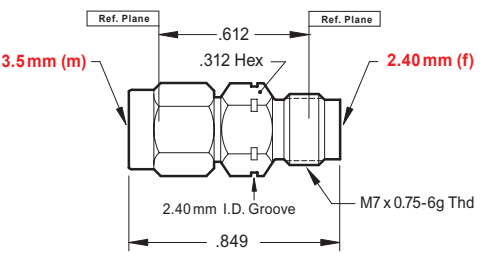

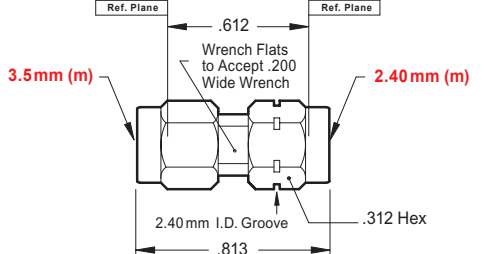
- Per MIL-STD-348  
2.40 mm Figs. 324-1 and 324-2  
3.5 mm Ref IEEE Std 287

#### Construction:

- Housing: Stainless Steel, Passivated
- Contact: Beryllium Copper (BeCu)  
Gold Plated Per MIL-G-45204
- Center Contact Capture:  
Ultem 1000 Per ASTM D 5205  
and KEL-F Per ASTM D 1430

3.5 mm to 2.40 mm (Model # 61420-00SF) Test Data



<p><b>3.5 mm (f) to 2.40 mm (f)</b> (33 GHz)</p>  <p><b>Model 61410-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane 3.5 mm (f) .312 Hex 2.40 mm (f) .250-36UNS-2A Threaded 2.40 mm I.D. Groove M7 x 0.75-6g Thd .808</p>
<p><b>3.5 mm (f) to 2.40 mm (m)</b> (33 GHz)</p>  <p><b>Model 61420-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane 3.5 mm (f) .312 Hex 2.40 mm (m) .250-36UNS-2A Threaded 2.40 mm I.D. Groove .772</p>
<p><b>3.5 mm (m) to 2.40 mm (f)</b> (33 GHz)</p>  <p><b>Model 61430-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane 3.5 mm (m) .312 Hex 2.40 mm (f) 2.40 mm I.D. Groove M7 x 0.75-6g Thd .849</p>
<p><b>3.5 mm (m) to 2.40 mm (m)</b> (33 GHz)</p>  <p><b>Model 61440-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane 3.5 mm (m) Wrench Flats to Accept .200 Wide Wrench 2.40 mm (m) 2.40 mm I.D. Groove .312 Hex .813</p>

All Southwest Microwave Models are Suitable for Space / Hi-Rel Applications (see page 109).

### 2.92 mm "JK" Adapters

#### DC to 40.0 GHz

#### Application:

- DC to 40.0 GHz High Performance

#### Features:

- Mode Free Through 40.0 GHz.
- Low VSWR:  
DC to 27.0 GHz.....1.10:1 max.  
27.0 to 40.0 GHz.....1.15:1 max.
- Minimum VSWR Contribution When Used as Connector Savers
- Performance Consistency Unit-to-unit
- Temperature Rating -55°C to +135°C

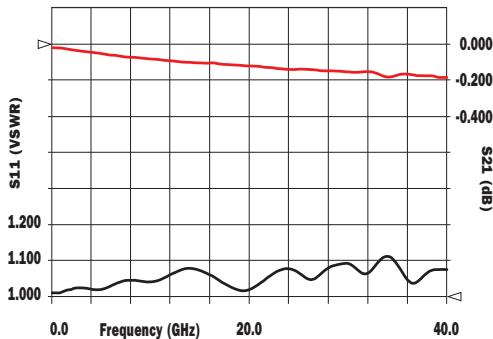
#### Interface:

- Per MIL-STD-348  
2.92 mm (SMK) Figs. 323-1 and 323-2

#### Construction:

- Housing: Stainless Steel, Passivated
- Contact: Beryllium Copper (BeCu)  
Gold Plated Per MIL-G-45204
- Center Contact Capture:  
Ultem 1000 Per ASTM D 5205  
and KEL-F Per ASTM D 1430

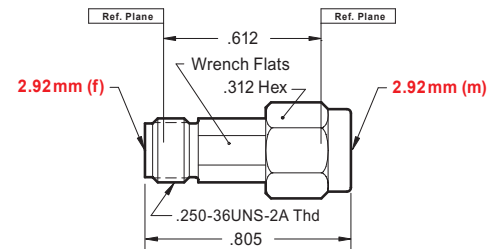
2.92 mm to 2.92 mm (Model # 1031-00SF) Test Data



2.92 mm (f) to (m)  
(40 GHz)



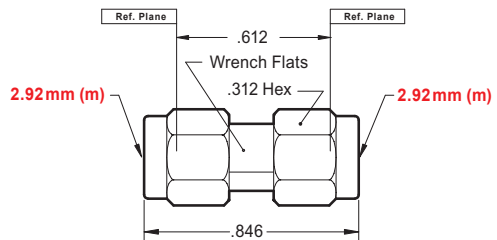
Model 1030-00SF



2.92 mm (m) to (m)  
(40 GHz)



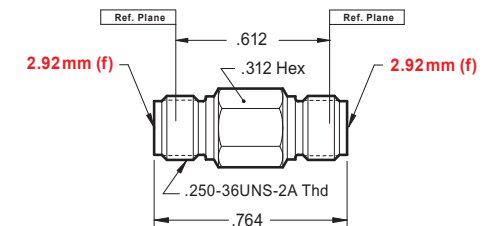
Model 1031-00SF



2.92 mm (f) to (f)  
(40 GHz)



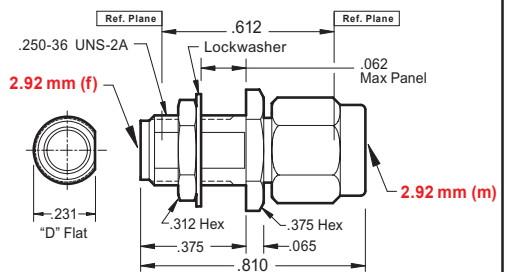
Model 1032-00SF



2.92 mm (f) to (m)  
Bulkhead  
(40 GHz)



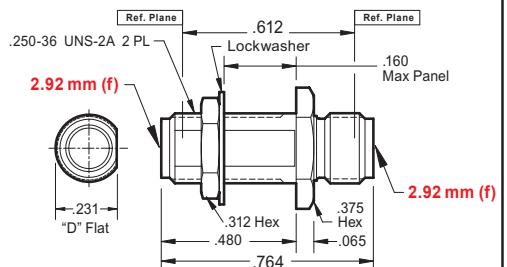
Model 1030-10SF



2.92 mm (f) to (f)  
Bulkhead  
(40 GHz)



Model 1032-10SF



All Southwest Microwave Models are Suitable for Space / Hi-Rel Applications (see page 109).

### 2.92 mm to 2.40 mm

DC to 40.0 GHz

**Application:**

- DC to 40.0 GHz High Performance

**Features:**

- Mode Free Through 40.0 GHz.
- Low VSWR:  
DC to 27.0 GHz.....1.10:1 max.  
27.0 to 40.0 GHz.....1.15:1 max.
- Performance Consistency Unit-to-unit
- Temperature Rating -55°C to +135°C

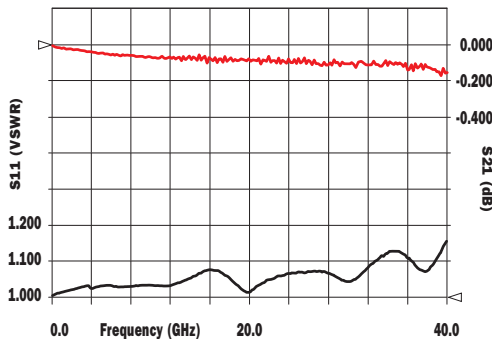
**Interface:**


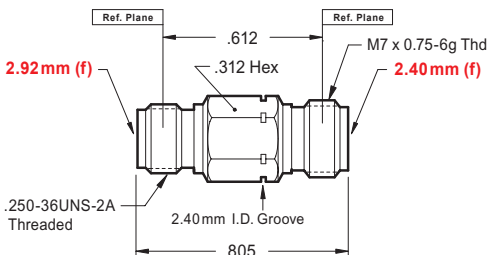

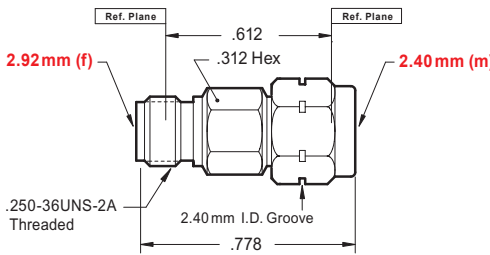

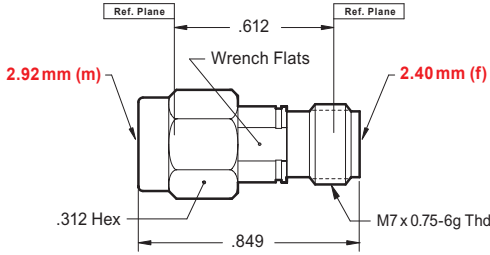

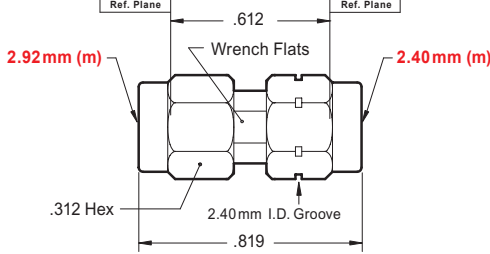
- Per MIL-STD-348  
2.92 mm (SMK) Figs. 323-1 and 323-2  
2.40 mm Figs. 324-1 and 324-2

**Construction:**

- Housing: Stainless Steel, Passivated
- Contact: Beryllium Copper (BeCu)  
Gold Plated Per MIL-G-45204
- Center Contact Capture:  
Ultem 1000 Per ASTM D 5205  
and KEL-F Per ASTM D 1430

2.92 mm to 2.40 mm (Model # 101430-00SF) Test Data



<p><b>2.92 mm (f) to 2.40 mm (f)</b> (40 GHz)</p>  <p><b>Model 101410-00SF</b></p>	
<p><b>2.92 mm (f) to 2.40 mm (m)</b> (40 GHz)</p>  <p><b>Model 101420-00SF</b></p>	
<p><b>2.92 mm (m) to 2.40 mm (f)</b> (40 GHz)</p>  <p><b>Model 101430-00SF</b></p>	
<p><b>2.92 mm (m) to 2.40 mm (m)</b> (40 GHz)</p>  <p><b>Model 101440-00SF</b></p>	

All Southwest Microwave Models are Suitable for Space / Hi-Rel Applications (see page 109).

### SSMA (Airline) to 2.40 mm

DC to 40.0 GHz

**Application:**

- DC to 40.0 GHz High Performance

**Features:**

- Mode Free Through 40.0 GHz.
- Low VSWR:  
DC to 27.0 GHz.....1.10:1 max.  
27.0 to 40.0 GHz.....1.15:1 max.
- Performance Consistency Unit-to-unit
- Temperature Rating -55°C to +135°C

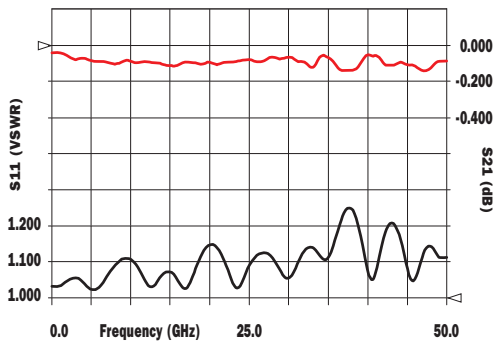
**Interface:**


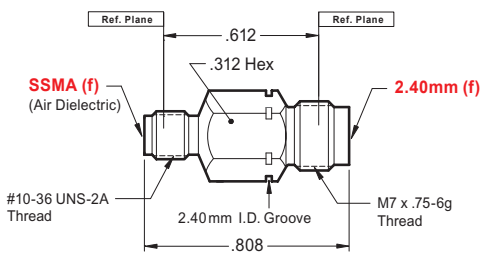

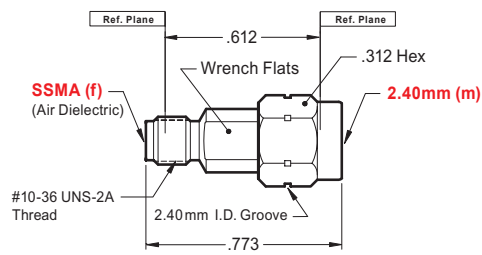

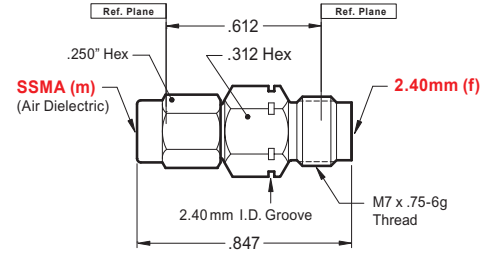

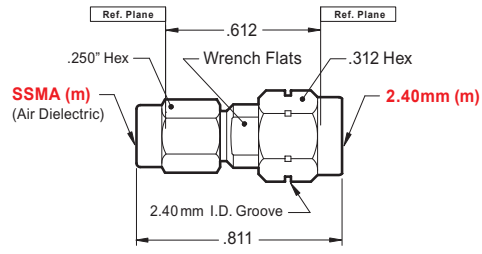
- Per MIL-STD-348  
SSMA Figs. 319-1 and 319-2  
2.40 mm Figs. 324-1 and 324-2

**Construction:**

- Housing: Stainless Steel, Passivated
- Contact: Beryllium Copper (BeCu)  
Gold Plated Per MIL-G-45204
- Center Contact Capture:  
Ultem 1000 Per ASTM D 5205  
and KEL-F Per ASTM D 1430

**SSMA (Airline) to 2.4 mm**  
(Model # 11430-00SF) Test Data



<p><b>SSMA (f) to 2.40 mm (f)</b> (40 GHz)</p>  <p><b>Model 11410-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane SSMA (f) (Air Dielectric) .312 Hex 2.40mm (f) #10-36 UNS-2A Thread 2.40 mm I.D. Groove M7 x .75-6g Thread .808</p>
<p><b>SSMA (f) to 2.40 mm (m)</b> (40 GHz)</p>  <p><b>Model 11420-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane SSMA (f) (Air Dielectric) Wrench Flats .312 Hex 2.40mm (m) #10-36 UNS-2A Thread 2.40 mm I.D. Groove .773</p>
<p><b>SSMA (m) to 2.40 mm (f)</b> (40 GHz)</p>  <p><b>Model 11430-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane SSMA (m) (Air Dielectric) .250° Hex .312 Hex 2.40mm (f) 2.40 mm I.D. Groove M7 x .75-6g Thread .847</p>
<p><b>SSMA (m) to 2.40 mm (m)</b> (40 GHz)</p>  <p><b>Model 11440-00SF</b></p>	 <p>Ref. Plane .612 Ref. Plane SSMA (m) (Air Dielectric) .250° Hex Wrench Flats .312 Hex 2.40mm (m) 2.40 mm I.D. Groove .811</p>

### 2.40 mm Adapters

#### DC to 50.0 GHz

#### Application:

- DC to 50.0 GHz High Performance

#### Features:

- Mode Free Through 50.0 GHz.
- Low VSWR:  
DC to 27.0 GHz.....1.10:1 max.  
27.0 to 40.0 GHz.....1.15:1 max.  
40.0 to 50.0 GHz.....1.20:1 max.
- Minimum VSWR Contribution  
When Used as Connector Savers
- Performance Consistency Unit-to-unit
- Temperature Rating -55°C to +135°C

#### Interface:

- Per MIL-STD-348  
2.40 mm Figs. 324-1 and 324-2

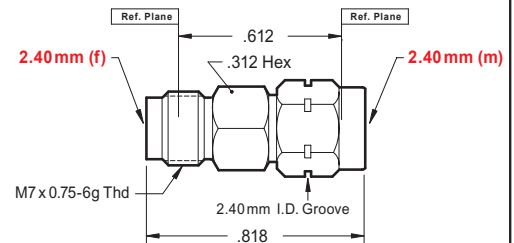
#### Construction:

- Housing: Stainless Steel, Passivated
- Contact: Beryllium Copper (BeCu)  
Gold Plated Per MIL-G-45204
- Center Contact Capture:  
Ultem 1000 Per ASTM D 5205  
and KEL-F Per ASTM D 1430

#### 2.40 mm (f) to (m) (50 GHz)



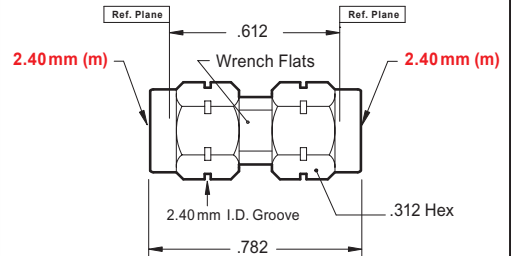
**Model 1430-00SF**



#### 2.40 mm (m) to (m) (50 GHz)



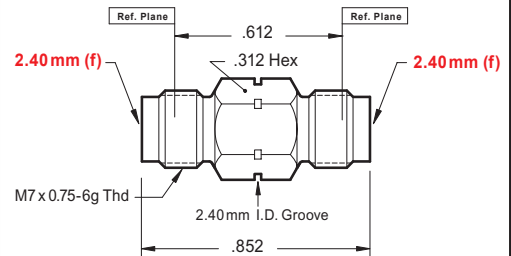
**Model 1431-00SF**



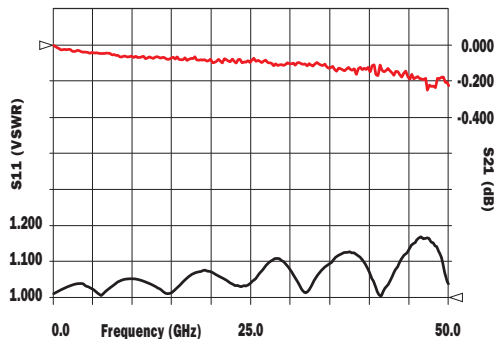
#### 2.40 mm (f) to (f) (50 GHz)



**Model 1432-00SF**



**2.40 mm to 2.40 mm (Model # 1431-00SF) Test Data**



All Southwest Microwave Models are Suitable for Space / Hi-Rel Applications (see page 109).