

# SM3180 DATA SHEET

### 2.92mm Female to 2.4mm Male Adapter

2.92mm female to 2.4mm male adapter part number SM3180 from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.4mm adapter has a female to male gender configuration. SM3180 2.92mm female to 2.4mm male adapter operates to 40 GHz. The 2.92mm connector mates mechanically with commercially available SMA and 3.5mm connectors. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) connectors. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 maximum.

RF adapters can be used to enable connections between two connector types that would otherwise not mate. Certain RF adapter configurations can also be used to protect connectors on expensive equipment where the number of connect and disconnect cycles is high. An RF, microwave, or millimeter wave adapter is connected to the equipment and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connnector savers. Fairview Microwave also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

### **Electrical Specifications**

Description	Min	Тур	Max	Units		
Frequency Range	DC		40	GHz		
VSWR			1.25:1			

Electrical Specification Notes: Values at 25°C, sea level.

#### **Mechanical Specifications**

<b>Size</b> Length Width	0.752 in [19.1 mm] 0.312 in [7.92 mm]
Weight	0.00838 lbs [3.8 g]

Description	Connector 1	Connector 2		
Туре	2.92mm Female	2.4mm Male		
Polarity	Standard	Standard		
Mating Cycles	500	500		
Hex Size		5/16 in.		
Mating Torque		8 to 10 in-lbs		
		[0.90 to 1.13 Nm]		



## **Configuration:**

- 2.92mm Female Connector 1
- 2.4mm Male Connector 2
- 50 Ohms
- Straight Body Geometry

### **Features:**

- VSWR of 1.25:1 max up to 40 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

### **Applications:**

- Enables Between Series Connections
- General Purpose Test

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### **Material Specifications**

2.92mm Female	2.4mm Male			
Beryllium Copper	Beryllium Copper			
Gold over Nickel	Gold over Nickel			
MIL-G-45204	MIL-G-45204			
Oxide-Noryl	Oxide-Noryl			
Passivated Stainless Ste	eel			
ASTM A380				
	Passivated Stainless Steel			
	ASTM A380			
	Passivated Stainless Steel			
	ASTM A380			
	Beryllium Copper Gold over Nickel MIL-G-45204 Oxide-Noryl Passivated Stainless Ste			

### **Environmental Specifications**

### **Temperature**

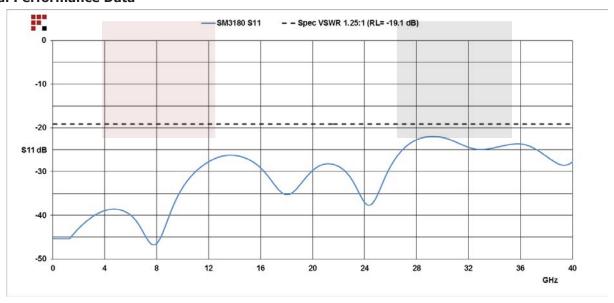
Operating Range Vibration Salt Spray -55 to +100 deg C MIL-STD 202, Method 204, Condition D (20 G's) MIL-STD 202, Method 101, Condition B, 5% salt solution

**Compliance Certifications** (see product page for current document)

### **Plotted and Other Data**

Notes:

### **Typical Performance Data**







2.92mm Female to 2.4mm Male Adapter 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 2.92mm Female to 2.4mm Male Adapter SM3180

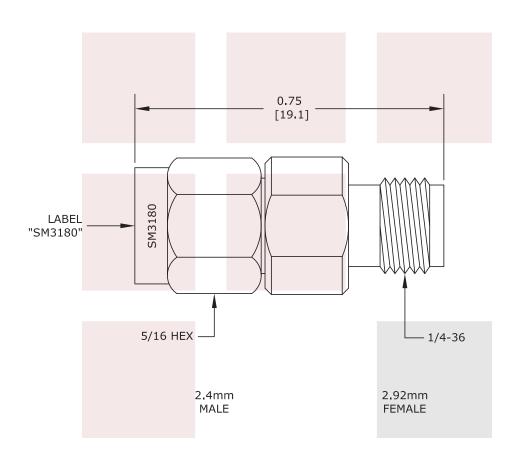
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/2.92mm-female-2.4mm-male-adapter-sm3180-p.aspx

to implem	ent impr	ovements	<ul> <li>Fairview</li> </ul>	v Microv	ave reserv	es the righ	it to mak	ke such	changes	as requ	uired. Unle	ss oth	nerwise
					w Microwa								
suitability	of the pa	art descri	bed hereir	n for an	y particular	purpose,	and Fair	view M	icrowave	does r	not assume	any	liability
arising ou	t of the u	se of any	part or do	ocumen	tation.								







STANDARD TOLERANCES

.X ±0.2 .XX ±0.1 .XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.  ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES:  1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  3. DIMENSIONS ARE IN INCHES [mm].					
2.92mm Female to 2.4mm Male Adapter	DWG NO SM3180			CAGE CODE 3FKR5		
	CAD FILE 091216	SHEET	SCAL	E N/A	SIZE A	41742