

## SMA Male Adjustable Phase Trimmer With an Adjustable Phase of 15 Deg. Per GHz From DC to 18 GHz for RG402, Brass Body

Fairview Microwave's SMP8283 is a phase trimmer that has phase adjustment range of 15 degrees per GHz with a frequency range from DC to 18 GHz. With SMA male for RG402, this RF phase trimmer design is tried and true technology that offers exceptional RF performance characteristics that include a maximum VSWR of 1.45:1. Phase trimmers are part of Fairview Microwave's comprehensive RF passive product offerings which are available in stock and ready for same-day shipment.



### Features:

- Phase Adjustment: 15 Deg/GHz
- Frequency Range from DC to 18 GHz
- SMA male Connectorized Design
- Connector Interface Type: RG402
- Insertion Loss: 0.6 dB Max
- Max VSWR 1.45:1
- Max Power Rating: 80 Watts (CW)

### Applications:

- Test & Measurements
- Radar Development
- Military Communications Systems
- Phase Array Antenna System
- Satellite Communications

### Electrical Specifications (Values at +25° C, Sea Level)

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Phase Adjustment		15		Deg/GHz
Input VSWR			1.45:1	
Output VSWR			1.45:1	
Insertion Loss			0.6	dB
Input Power, CW			80	dBm

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC-12	12-18				GHz
VSWR, Max	1.25:1	1.45:1				

### Mechanical Specifications

#### Size

Length	2.008 in [51 mm]
Width/Diameter	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.051 lbs [23.13 g]
Body Material and Plating	Brass, Copper-Tin-Zinc Alloy

#### Configuration

Input Connector	SMA Male
Input Connector Center Contact Material	Beryllium Copper
Input Connector Center Contact Plating	Gold
Output Connector Center Contact Material	Beryllium Copper
Output Connector Center Contact Plating	Gold


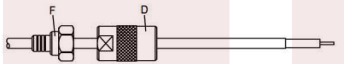
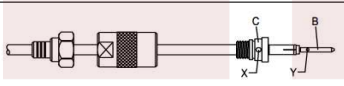
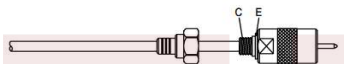
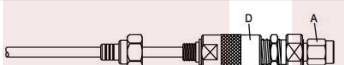
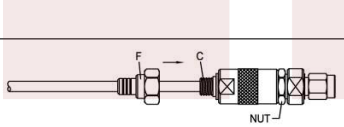
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**Environmental Specifications**
**Compliance Certifications** (see [product page](#) for current document)

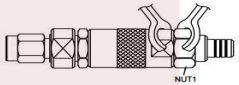


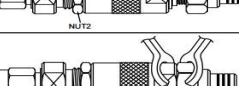
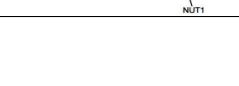
**Plotted and Other Data**

Notes:

**Sequence Diagram**
**Phase Trimmer Assembly Instructions**

Diagram	Assembly Instructions
	Step 1: Strip as shown
	Step 2: Slide adjustment nut "D" and HEX nut "F" over cable.
	Step 3: Put collet body "C" on cable and solder in "X". Step 4: Put Pin "B" on center conductor and solder in "Y".
	Step 5: Clip C ring "E" onto the back of collet body "C".
	Step 6: Screw adjustment nut "D" on the connector body "A". Step 7: Adjust to the required phase: Keep connector body "A" in a fixed position and adjust phase by manually turning adjustment nut "D".
	Step 8: Tighten nut after adjusting phase. Step 9: Tighten HEX nut "F" on the collet body "C"

**Phase Trimmer Phase Adjustment Instructions**

Diagram	Phase Trimmer Instructions
	Step 1: Loosen NUT1 before adjusting Phase. Use Spanner size 11mm.
	Step 2: Loosen NUT2 before adjusting Phase. Use Spanner size 11mm.
	Step 3: Adjust to the required phase: Keep BODY1 in a fixed position and adjust phase by manually turning BODY2.
	Step 4: Tighten NUT2 after adjusting phase. Use Spanner size 11mm.
	Step 5: Tighten NUT1 after adjusting phase. Use Spanner size 11mm.

SMA Male Adjustable Phase Trimmer With an Adjustable Phase of 15 Deg. Per GHz From DC to 18 GHz for RG402, Brass Body 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: [SMA Male Adjustable Phase Trimmer With an Adjustable Phase of 15 Deg. Per GHz From DC to 18 GHz for RG402, Brass Body SMP8283](#)

URL: <https://www.fairviewmicrowave.com/sma-adjustable-phase-trimmer-smp8283-p.aspx>

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