

SMA Variable Phase Shifter with an Adjustable Phase Range of 360 Degrees Minimum and from 18 GHz to 26.5 GHz



FM8253A

Features

- Adjustable Phase Shifter
- 18 GHz to 26.5 GHz Range
- Adjustable Phase of 0 to 360 Degrees Minimum Optimized Control Range
- 100 Watts CW Max Input Power
- Insertion Loss 1.5 dB Max

Applications

- Test & Measurements
- Radar Developments
- Military Communication Systems
- Tracking Systems
- Direction Finding Systems
- Antenna Test
- Frequency Translation

Description

Coaxial RF Variable phase shifter FM8253A is just one of many radio frequency components specifically stocked to be ready for quick shipment. Fairview Microwave RF variable phase shifter is manufactured with SMA connectors and has a phase control range of 360 Degrees minimum. This SMA with an Optimized Control Range from 360 Degrees minimum over the Operating Frequency Range of 18 GHz to 26.5 GHz. Fairview Microwave variable phase shifter with SMA connectors has a maximum input power of 100 watts. RF variable phase shifter design for part number FM8253A is rated for a maximum VSWR of 1.8:1. The RF specs for this Fairview variable phase shifting component can be found on its radio frequency phase shifter PDF specifications above. Our SMA 360 degrees minimum phase shifter is one radio frequency component of more than one million microwave and millimeter wave RF parts in stock. Fairview Microwave is where to buy a variable phase shifter for quick service and easy worldwide shipment. Fairview also stocks a wide selection of other radio frequency phase shifting products that ship in the same day from our warehouses as with the rest of our other RF/microwave and millimeter wave components.

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

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
Impedance		50		Ohms
Phase Shift	360			Degrees
Phase Adjustment	30			Deg/GHz
Input VSWR			1.8:1	
Insertion Loss			1.5	dB
Insertion Phase		240		Degrees
Input Power, CW			100	Watts
Input Power, Peak			3	kWatts

Electrical Specification Notes:

Insertion Phase @ 1 GHz: 240° (min setting)

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Absolute Maximum Rating

Mechanical Specifications

Size

Length	3.75 in [95.25 mm]
Width/Diameter	2 in [50.8 mm]
Height	1 in [25.4 mm]
Weight	1.086 lbs [492.6 g]
Body Material and Plating	Aluminum

Configuration

Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature

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

Plotted and Other Data

SMA Variable Phase Shifter with an Adjustable Phase Range of 360 Degrees Minimum and from 18 GHz to 26.5 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: [SMA Variable Phase Shifter with an Adjustable Phase Range of 360 Degrees Minimum and from 18 GHz to 26.5 GHz FM8253A](#)

URL: <https://www.fairviewmicrowave.com/sma-adjustable-phase-shifter-18-26.5-ghz-fm8253a-p.aspx>

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 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 liability arising out of the use of any part or document.

FM8253A CAD Drawing

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