

2.92mm Variable Phase Shifter with an Adjustable Phase Range of 360 Degrees Minimum and from 18 GHz to 40 GHz



FM82P1000A

Features

- Adjustable Phase Shifter
- 18 GHz to 40 GHz Range
- 0-360 Degree Minimum Optimized Control Range
- 100 Watts CW Max Input Power
- Insertion Loss 2.5 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 FM82P1000A 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 2.92 mm connectors and has a phase control range of 360 Degrees minimum. This 2.92 mm with an Optimized Control Range from 360 Degrees minimum over the Operating Frequency Range of 18 GHz to 40 GHz. Fairview Microwave variable phase shifter with 2.92 mm connectors has a maximum input power of 100 watts. RF variable phase shifter design for part number FM82P1000A is rated for a maximum VSWR of 2:1. The RF specs for this Fairview variable phase shifting component can be found on its radio frequency phase shifter PDF specifications above. Our 2.92 mm 0-360 degrees 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 | | 40 | GHz |
| Impedance | | 50 | | Ohms |
| Phase Shift | 360 | | | Degrees |
| Phase Adjustment | 30 | | | Deg/GHz |
| Input VSWR | | | 2:1 | |
| Insertion Loss | | | 2.5 | 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)

Absolute Maximum Rating

Mechanical Specifications

Size
Length 3.75 in [95.25 mm]

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| | |
|---------------------------|----------------------|
| Width/Diameter | 2 in [50.8 mm] |
| Height | 1 in [25.4 mm] |
| Weight | 0.701 lbs [317.97 g] |
| Body Material and Plating | Aluminum |
| Configuration | |
| Input Connector | 2.92mm Female |
| Output Connector | 2.92mm Female |

Environmental Specifications

Temperature

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

Plotted and Other Data

2.92mm Variable Phase Shifter with an Adjustable Phase Range of 360 Degrees Minimum and from 18 GHz to 40 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.

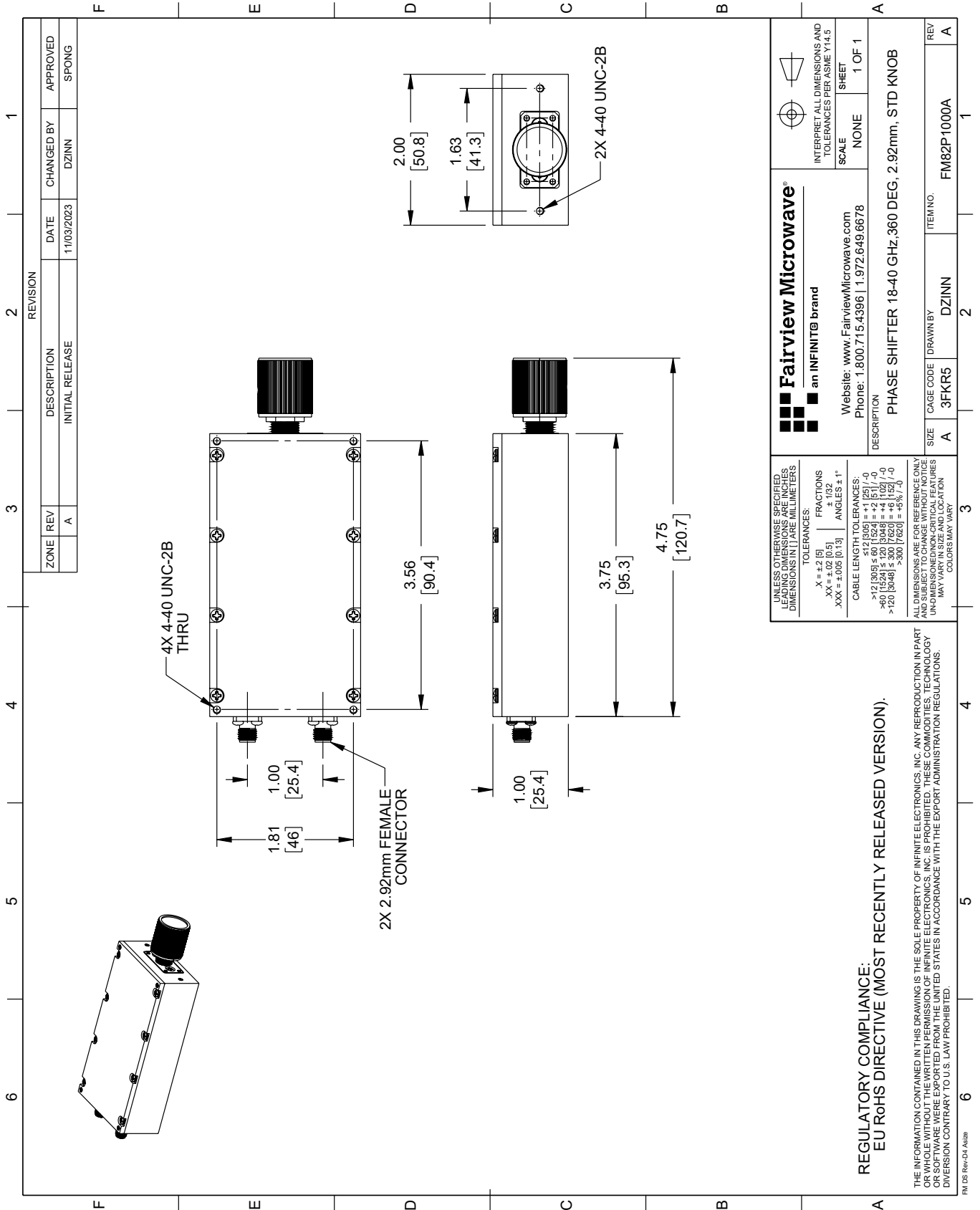
For additional information on this product, please click the following link: [2.92mm Variable Phase Shifter with an Adjustable Phase Range of 360 Degrees Minimum and from 18 GHz to 40 GHz FM82P1000A](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-adjustable-phase-shifter-18-40-ghz-fm82p1000a-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.

FM82P1000A CAD Drawing

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| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| A | | INITIAL RELEASE | 11/03/2023 | DZINN | SPONG |

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------|------------|
| | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 | |
| Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678 | | SCALE | SHEET |
| DESCRIPTION PHASE SHIFTER 18-40 GHz, 360 DEG, 2.92mm, STD KNOB | | NONE | 1 OF 1 |
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 3FKR5 | DZINN | FM82P1000A |
| REV | | | A |