



Mini-Circuits

COAXIAL

# Adapter, SMA-F to SMA-M

**SF-SM50+**

50Ω DC to 18 GHz

## FEATURES

- Flat response
- Excellent VSWR, 1.05:1 typ. up to 12.4 GHz and 1.15:1 typ. up to 18 GHz
- Low cost adapters, available from stock
- Rugged stainless steel body

## APPLICATIONS

- Connector saver
- Cable extender



Generic photo used for illustration purposes only

|            |                |
|------------|----------------|
| Model No.  | SF-SM50+       |
| Case Style | DJ836          |
| Connectors | SMA-F to SMA-M |

### +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

## ELECTRICAL SPECIFICATIONS AT 25°C

| Parameter       | Frequency (GHz) | Min. | Typ. | Max. | Units |
|-----------------|-----------------|------|------|------|-------|
| Frequency Range |                 | DC   |      | 18   | GHz   |
| Insertion Loss  | DC - 18         | —    | 0.01 | —    | dB    |
| VSWR            | DC-8            | —    | —    | 1.15 | :1    |
|                 | DC-12.4         | —    | —    | 1.28 |       |
|                 | DC-18           | —    | —    | 1.30 |       |

## MAXIMUM RATINGS

| Parameter             | Ratings        |
|-----------------------|----------------|
| Operating temperature | -55°C to 100°C |
| Storage temperature   | -55°C to 100°C |

Permanent damage may occur if any of these limits are exceeded.

REV. F  
ECO-012138  
SF-SM50+  
MCL NY  
220221





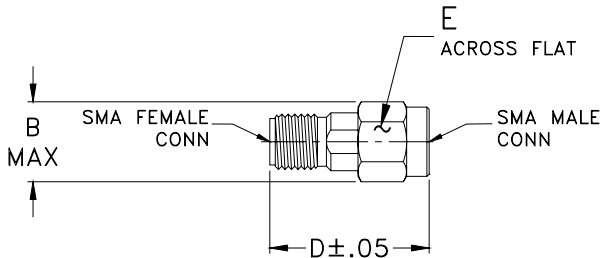
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## OUTLINE DRAWING

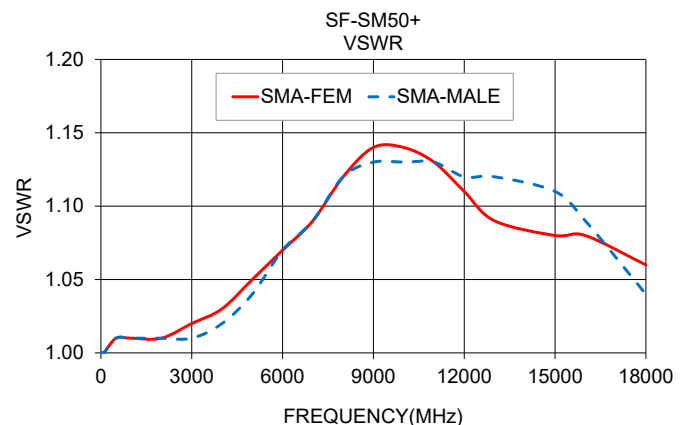


## OUTLINE DIMENSIONS (Inch/mm)

| A  | B    | C  | D     | E    | wt    |
|----|------|----|-------|------|-------|
| -- | .36  | -- | 0.72  | .312 | grams |
| -- | 9.14 | -- | 18.29 | 7.92 | 3.2   |

## TYPICAL PERFORMANCE DATA

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1)  |          |
|-----------------|---------------------|------------|----------|
|                 |                     | SMA-FEMALE | SMA-MALE |
| 10              | 0.00                | 1.00       | 1.00     |
| 50              | 0.01                | 1.00       | 1.00     |
| 100             | 0.01                | 1.00       | 1.00     |
| 500             | 0.02                | 1.01       | 1.01     |
| 1000            | 0.03                | 1.01       | 1.01     |
| 2000            | 0.03                | 1.01       | 1.01     |
| 3000            | 0.04                | 1.02       | 1.01     |
| 4000            | 0.04                | 1.03       | 1.02     |
| 5000            | 0.05                | 1.05       | 1.04     |
| 6000            | 0.04                | 1.07       | 1.07     |
| 7000            | 0.05                | 1.09       | 1.09     |
| 8000            | 0.05                | 1.12       | 1.12     |
| 9000            | 0.05                | 1.14       | 1.13     |
| 10000           | 0.05                | 1.14       | 1.13     |
| 11000           | 0.04                | 1.13       | 1.13     |
| 12000           | 0.04                | 1.11       | 1.12     |
| 13000           | 0.09                | 1.09       | 1.12     |
| 15000           | 0.07                | 1.08       | 1.11     |
| 16000           | 0.08                | 1.08       | 1.09     |
| 18000           | 0.09                | 1.06       | 1.04     |



## NOTES

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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