

# FSCI1622A-6000-18000

Coaxial Isolators, 6-18GHz

## Features:

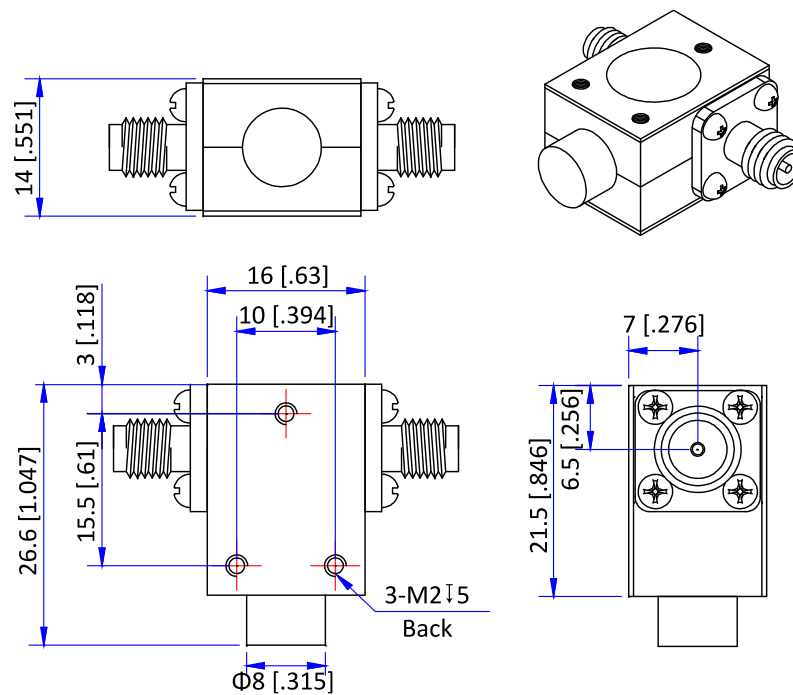
- Excellent Temperature Stability
- Compact Size
- High Reverse Power Handling
- RoHS Compliant

## Applications:

- RF Power Amplifiers and PA Protection
- Wireless Communications
- Satellite Communications
- 2G, 3G, 4G, 5G Communication systems

| Electrical Specifications    |                                    |                                       |                        |                |                       |                       |
|------------------------------|------------------------------------|---------------------------------------|------------------------|----------------|-----------------------|-----------------------|
| 1                            | Nominal Impedance                  | 50 Ω                                  |                        |                |                       |                       |
| 2                            | Frequency Bandwidth                | Up to 100%                            |                        |                |                       |                       |
| 3                            | Frequency Range <sup>1</sup> (MHz) | Insertion Loss<br>(dB Max.)           | Isolation<br>(dB Min.) | VSWR<br>(Max.) | FWD Power<br>(W Max.) | REV Power<br>(W Max.) |
| 4                            | 6000-12000                         | 1.5                                   | 10                     | 1.90           | 30                    | 10                    |
| 5                            | 6000-18000                         | 1.5                                   | 9.5                    | 2.00           | 30                    | 10                    |
| 6                            | 8000-18000                         | 1.4                                   | 15                     | 1.50           | 30                    | 10                    |
| 7                            | 12000-18000                        | 0.8                                   | 17                     | 1.40           | 30                    | 10                    |
| 8                            | 13750-14500                        | 0.5                                   | 20                     | 1.25           | 30                    | 10                    |
| 9                            | 14500-16500                        | 0.5                                   | 18                     | 1.30           | 30                    | 10                    |
| 10                           | 15000-18000                        | 0.6                                   | 18                     | 1.30           | 30                    | 10                    |
| 11                           | 16000-18000                        | 0.6                                   | 18                     | 1.30           | 30                    | 10                    |
| Environmental Specifications |                                    |                                       |                        |                |                       |                       |
| 1                            | Operating Temperature              | 0°C ~ +60°C                           |                        |                |                       |                       |
| 2                            | Storage Temperature                | -50°C ~ +90°C                         |                        |                |                       |                       |
| Mechanical Specifications    |                                    |                                       |                        |                |                       |                       |
| 1                            | Connectors <sup>2</sup>            | SMA-Female                            |                        |                |                       |                       |
| 2                            | Cavity Material                    | Conductive Oxidized Aluminum          |                        |                |                       |                       |
| 3                            | Housing Material                   | Nickel-Plated Iron                    |                        |                |                       |                       |
| 4                            | Conductor                          | Silver-Plated Brass                   |                        |                |                       |                       |
| 5                            | Dimensions <sup>3</sup>            | 16.0x26.6x14.0 mm [0.63x1.05x0.55 in] |                        |                |                       |                       |
| 6                            | Weight                             | Approx. 43.5 g                        |                        |                |                       |                       |

### Outline Drawing (Units: mm [in]; Tolerance: $\pm 0.3$ mm [ $\pm 0.01$ in])



### Ordering Information:

Model: FSCI1622A-FF-FF-RR-CC

FF = Frequency Range in MHz

RR = Reverse Power Rating in W

CC = Connector Type (S=SMA)

Example: 6-12GHz, 10W Reverse Power, SMA  $\rightarrow$  **FSCI1622A-6000-12000-10-S**

### Notes:

1. Only part of the frequency range is listed. Other frequencies are available upon request.
2. The isolator connector is available in SMA male, female, or bulkhead types.
3. Dimensions do not include connectors.