

# Coaxial Precision Fixed Attenuator

## HAT-3+ HAT-3

50Ω 1W 3dB DC to 2000 MHz



CASE STYLE: FF747

| Connectors          | Model    | Price    | Qty.  |
|---------------------|----------|----------|-------|
| BNC Male-BNC Female | HAT-3(+) | 9.95 ea. | (1-9) |

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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

### Maximum Ratings

|                       |                |
|-----------------------|----------------|
| Operating Temperature | -45°C to 100°C |
| Storage Temperature   | -55°C to 100°C |

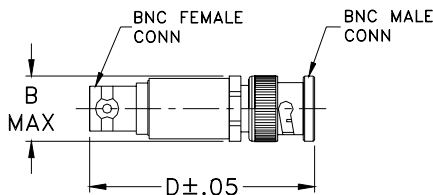
### Features

- excellent VSWR, 1.05:1 typ.
- excellent flatness, 0.15 dB typ. to 2000 MHz
- usable to 4000 MHz

### Applications

- PCS
- instrumentation
- cellular

### Outline Drawing



### Outline Dimensions (inch/mm)

| B     | D     | wt    |
|-------|-------|-------|
| .62   | 1.94  | grams |
| 15.75 | 49.28 | 30.0  |

### Electrical Specifications

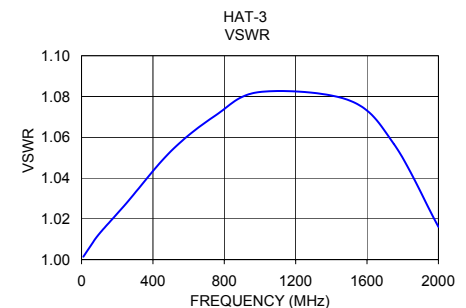
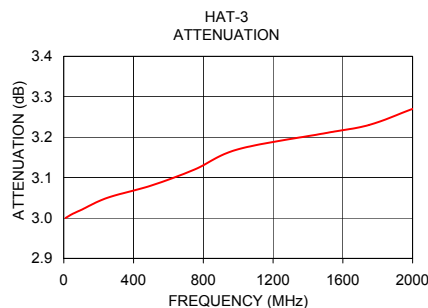
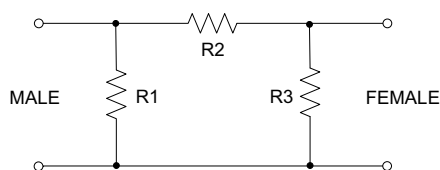
| FREQ. RANGE (MHz) | ATTENUATION (dB) |          |          |                 |            | VSWR (:1)  |          |          | MAX. INPUT POWER (W) |
|-------------------|------------------|----------|----------|-----------------|------------|------------|----------|----------|----------------------|
|                   | Flatness*        |          |          |                 |            | DC-0.5 GHz | DC-1 GHz | DC-2 GHz |                      |
|                   | DC-0.5 GHz       | DC-1 GHz | DC-2 GHz | Total Band Max. | DC-0.5 GHz |            |          |          |                      |
| $f_L$ - $f_U$     | Nom.             | Typ.     | Typ.     | Typ.            |            | Typ.       | Typ.     | Typ.     |                      |
| DC-2000           | 3±0.2            | 0.05     | 0.10     | 0.15            | 0.25       | 1.05       | 1.10     | 1.10     | 1.0                  |

\* Flatness = variation over band divided by 2.

### Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 10.00           | 3.00             | 1.00      |
| 50.00           | 3.01             | 1.01      |
| 100.00          | 3.02             | 1.01      |
| 250.00          | 3.05             | 1.03      |
| 500.00          | 3.08             | 1.05      |
| 750.00          | 3.12             | 1.07      |
| 1000.00         | 3.17             | 1.08      |
| 1500.00         | 3.21             | 1.08      |
| 1750.00         | 3.23             | 1.06      |
| 2000.00         | 3.27             | 1.02      |

### Electrical Schematic



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