

CATTEN-01R5

1.5dB Attenuator

SMA 50 Ohm

DC to 3 GHz



Temperature Range: -40°C to +85°C
 Rated Power: 1 Watt Max
 Frequency Range: DC to 3 GHz
 VSWR: 1:1.3 Max
 Impedance: 50 Ohms
 Attenuation Tolerance: ±0.3 dB Typical

The Attenuator offers end users a rugged SMA attenuator housing for easy connection. The CATTEN-01R5 provides 1 Watt of power dissipation. Tolerance matching is used to provide superior temperature tracking to individual components. Attenuator frequency range is from DC to 3 GHz.

| Test | Condition of Test | Test Results | |
|---------------------------------|---|--------------|-------------|
| | | 0.5dB to 5dB | 6dB to 20dB |
| Endurance Test per EIA 575-3.14 | 1000 hrs at 70°C, 1.5 hrs "ON", 0.5 hrs "OFF" | ± 0.2 dB | ± 0.3 dB |
| Overload | Per EIA 575-3.6 Short time overload | ± 0.2 dB | ± 0.3 dB |
| Thermal Shock | Per EIA 575-3.5 | ± 0.2 dB | ± 0.3 dB |
| Moisture Resistance | Per EIA 575-3.10 | ± 0.2 dB | ± 0.3 dB |
| High Temperature Exposure | Per EIA 575-3.7 | ± 0.2 dB | ± 0.3 dB |
| Low Temperature Exposure | Per EIA 575-3.12 | ± 0.2 dB | ± 0.3 dB |

Product Control:

| | | | |
|----------------------|-------------|---------------|---------------|
| Crystek Part Number: | CATTEN-01R5 | Release Date: | 24-Jan-2022 |
| Revision Level: | D | Responsible: | K. Piotrowicz |

CATTEN-01R5

1.5dB Attenuator

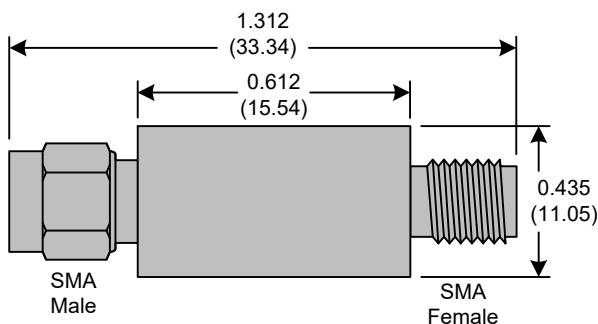
SMA 50 Ohm

DC to 3 GHz



| Part Number | Attenuation (dB) | Max Power (Watts) |
|-------------|------------------|-------------------|
| CATTEN-01R0 | 1.0 | 1 |
| CATTEN-01R5 | 1.5 | 1 |
| CATTEN-02R0 | 2.0 | 1 |
| CATTEN-03R0 | 3.0 | 1 |
| CATTEN-04R0 | 4.0 | 1 |
| CATTEN-05R0 | 5.0 | 1 |
| CATTEN-06R0 | 6.0 | 1 |
| CATTEN-07R0 | 7.0 | 1 |
| CATTEN-08R0 | 8.0 | 1 |
| CATTEN-09R0 | 9.0 | 1 |
| CATTEN-0100 | 10.0 | 1 |
| CATTEN-0150 | 15.0 | 0.5 |
| CATTEN-0180 | 18.0 | 0.5 |
| CATTEN-0200 | 20.0 | 0.5 |

| 1.5 dB Data | | Return Loss | |
|-------------|------------|-------------|-------------|
| Freq. (MHz) | Atten (dB) | Male (dB) | Female (dB) |
| 0.3 | 1.45 | 74 | 66 |
| 0.5 | 1.45 | 74 | 66 |
| 0.8 | 1.45 | 74 | 66 |
| 1.0 | 1.44 | 74 | 66 |
| 5.0 | 1.44 | 70 | 66 |
| 10.0 | 1.44 | 69 | 65 |
| 20.0 | 1.43 | 63 | 63 |
| 50.0 | 1.45 | 57 | 56 |
| 100.0 | 1.45 | 51 | 50 |
| 200.0 | 1.45 | 46 | 44 |
| 300.0 | 1.48 | 43 | 42 |
| 400.0 | 1.49 | 41 | 40 |
| 500.0 | 1.48 | 39 | 39 |
| 600.0 | 1.49 | 38 | 37 |
| 700.0 | 1.50 | 36 | 36 |
| 800.0 | 1.49 | 35 | 35 |
| 900.0 | 1.51 | 34 | 34 |
| 1000.0 | 1.49 | 33 | 33 |
| 1500.0 | 1.54 | 28 | 29 |
| 2000.0 | 1.62 | 23 | 24 |
| 2500.0 | 1.56 | 20 | 20 |
| 3000.0 | 1.78 | 18 | 17 |



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