



**CRYSTEK**  
MICROWAVE  
A DIVISION OF CRYSTEK CORPORATION

# CATTEN-0200 20dB Attenuator SMA 50 Ohm DC to 3GHz



Temperature Range: -40°C to +85°C  
Rated Power: 0.5 Watt Max  
Freq Range: DC - 3GHz  
VSWR: 1:1.3 Max  
Impedance: 50 Ohms  
Attenuation Tolerance: 1-20 dB,  $\pm 1$  dB



Actual Size

The Attenuator Series offers end users a rugged SMA attenuator housing for easy connection. Attenuators are available from 1dB to 20dB with 1 Watt power dissipation. Tolerance matching is used to provide superior temperature tracking to individual components. Attenuator frequency range from DC to 3GHz.



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# CATTEN-0200

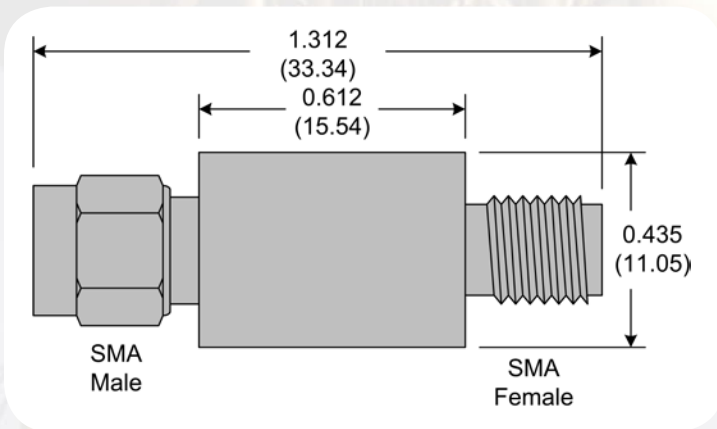
## 20dB Attenuator

### SMA 50 Ohm

### DC to 3GHz

| Part Number        | Attenuation  | Power (Max)     |
|--------------------|--------------|-----------------|
| CATTEN-01R0        | 1 dB         | 1 Watt          |
| CATTEN-01R5        | 1.5 dB       | 1 Watt          |
| CATTEN-02R0        | 2 dB         | 1 Watt          |
| CATTEN-03R0        | 3 dB         | 1 Watt          |
| CATTEN-04R0        | 4 dB         | 1 Watt          |
| CATTEN-05R0        | 5 dB         | 1 Watt          |
| CATTEN-06R0        | 6 dB         | 1 Watt          |
| CATTEN-07R0        | 7dB          | 1 Watt          |
| CATTEN-08R0        | 8dB          | 1 Watt          |
| CATTEN-09R0        | 9dB          | 1 Watt          |
| CATTEN-0100        | 10 dB        | 1 Watt          |
| CATTEN-0150        | 15 dB        | 0.5 Watt        |
| <b>CATTEN-0200</b> | <b>20 dB</b> | <b>0.5 Watt</b> |

| 20 dB Data  |            | Return Loss |             |
|-------------|------------|-------------|-------------|
| Freq. (MHz) | Atten (dB) | Male (dB)   | Female (dB) |
| 0.3         | 20.43      | 55          | 56          |
| 0.5         | 20.43      | 55          | 56          |
| 0.8         | 20.44      | 55          | 56          |
| 1.0         | 20.44      | 55          | 56          |
| 5.0         | 20.45      | 55          | 56          |
| 10.0        | 20.46      | 54          | 56          |
| 20.0        | 20.50      | 53          | 55          |
| 50.0        | 20.47      | 52          | 51          |
| 100.0       | 20.49      | 48          | 47          |
| 200.0       | 20.48      | 43          | 41          |
| 300.0       | 20.47      | 40          | 38          |
| 400.0       | 20.48      | 38          | 36          |
| 500.0       | 20.45      | 36          | 34          |
| 600.0       | 20.44      | 34          | 32          |
| 700.0       | 20.38      | 33          | 31          |
| 800.0       | 20.36      | 32          | 30          |
| 900.0       | 20.37      | 31          | 29          |
| 1000.0      | 20.28      | 30          | 28          |
| 1500.0      | 20.05      | 26          | 25          |
| 2000.0      | 19.68      | 22          | 22          |
| 2500.0      | 19.27      | 20          | 20          |
| 3000.0      | 18.99      | 18          | 18          |



| TEST                                    | Condition of Test                               | Test Results |             |
|-----------------------------------------|-------------------------------------------------|--------------|-------------|
|                                         |                                                 | 0.5dB to 5dB | 6dB to 20dB |
| Endurance Test at 70°C per EIA 575-3.14 | 1000 hours 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    |