



CRYSTEK
MICROWAVE
A DIVISION OF CRYSTEK CORPORATION

CATTEN-07R0 7dB Attenuator SMA 50 Ohm DC to 3GHz



Actual Size

| | |
|------------------------|-----------------|
| Temperature Range: | -40°C to +85°C |
| Rated Power: | 1 Watt Max |
| Freq Range: | DC - 3GHz |
| VSWR: | 1:1.3 Max |
| Impedance: | 50 Ohms |
| Attenuation Tolerance: | ±0.4 dB Typical |

The Attenuator offers end users a rugged SMA attenuator housing for easy connection. The CATTEN-07R0 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 3GHz.



CRYSTEK
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Rev: C
Date: 08-27-08

CATTEN-07R0

7dB 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 |
| CATTEN-0200 | 20 dB | 0.5 Watt |

| 7 dB Data | | Return Loss | |
|-------------|------------|-------------|-------------|
| Freq. (MHz) | Atten (dB) | Male (dB) | Female (dB) |
| 0.3 | 7.06 | 63 | 62 |
| 0.5 | 7.06 | 62 | 62 |
| 0.8 | 7.06 | 62 | 62 |
| 1.0 | 7.07 | 62 | 61 |
| 5.0 | 7.07 | 61 | 61 |
| 10.0 | 7.08 | 59 | 59 |
| 20.0 | 7.08 | 56 | 56 |
| 50.0 | 7.08 | 50 | 51 |
| 100.0 | 7.08 | 45 | 45 |
| 200.0 | 7.09 | 40 | 40 |
| 300.0 | 7.10 | 37 | 36 |
| 400.0 | 7.15 | 35 | 34 |
| 500.0 | 7.11 | 34 | 32 |
| 600.0 | 7.10 | 33 | 31 |
| 700.0 | 7.10 | 32 | 30 |
| 800.0 | 7.11 | 31 | 28 |
| 900.0 | 7.12 | 30 | 28 |
| 1000.0 | 7.13 | 29 | 27 |
| 1500.0 | 7.16 | 25 | 23 |
| 2000.0 | 7.25 | 22 | 21 |
| 2500.0 | 7.30 | 20 | 19 |
| 3000.0 | 7.39 | 18 | 17 |



| 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 |

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