



**CRYSTEK**  
MICROWAVE  
A DIVISION OF CRYSTEK CORPORATION

# CATTEN-01R0 1dB Attenuator SMA 50 Ohm DC to 3GHz



**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:** ±0.3 dB



Actual Size

The Attenuator offers end users a rugged SMA attenuator housing for easy connection. The CATTEN-01R0 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.



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Rev: C  
Date: 08-27-08

# CATTEN-01R0

## 1dB 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

1 dB Data		Return Loss	
Freq. (MHz)	Atten (dB)	Male (dB)	Female (dB)
0.3	0.95	56	55
0.5	0.94	56	55
0.8	0.94	56	55
1.0	0.94	56	55
5.0	0.93	56	55
10.0	0.94	56	55
20.0	0.93	56	54
50.0	0.93	53	52
100.0	0.94	48	47
200.0	0.95	43	42
300.0	0.98	40	39
400.0	0.99	38	37
500.0	0.98	36	36
600.0	0.98	34	34
700.0	1.00	33	33
800.0	0.99	32	32
900.0	1.02	31	31
1000.0	0.99	30	30
1500.0	1.05	26	27
2000.0	1.11	22	22
2500.0	1.03	19	19
3000.0	1.29	17	16



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