



Amplitech

"Amplify Your Potential"

35-3 Carlough Road, Bohemia, NY 11716

Tel: 631 521 7831 Fax: 631 521 7871

Serial Number: **107751**

Model No.: **APTC3-00100200-0900-D4**

IMPORTANT – MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50°C

Specifications at 23°C			
Frequency:	0.1- 2.0 GHz	Output Power @ 1dB Comp. Pt:	+ 0 dBm
Gain:	35 dB min.	Voltage/Current: DC Power	+8V VDC @60 mA, nom.
Gain Flatness:	± 1.0 dB max	Measured Current:	67 mA
VSWR Input:	2.0:1	Noise Figure:	1.0 dB, nom.
VSWR Output:	2.0:1 Z=50 Ohms	Outline: Model:	D4 EM 10179C

SEE NEXT PAGE FOR DATA AT -200°C

Note: Test data taken with case temperature of +23 °C

Frequency (GHz)	Gain (dB)	VSWR		Noise Figure (dB)	Output Power @ 1dB Comp. (+dBm)
		In	Out		
0.1	40.5	1.85	1.20	1.43	7
0.5	40.6	1.76	1.21	1.10	7
1.0	40.8	1.64	1.26	0.97	6
1.5	41.0	1.47	1.34	1.04	6
2.0	41.3	1.22	1.48	1.05	5

Data taken at 23°C unless otherwise stated.

COMMENTS: Do not apply DC Voltage to the INPUT. The maximum RF CW Input to the unit is +15 dBm. CAUTION: THIS AMPLIFIER IS INTENDED FOR CRYOGENIC USE AT 77K. DO NOT APPLY DC VOLTAGE HIGHER THAN +8V AS SHOWN ON LABEL. DO NOT cycle temp. repeatedly from 77K to 23C and vice versa.

TESTER: _____

DATE: 11/23/12

E-mail: sales@amplitechinc.com • website: www.amplitechinc.com



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Specifications at 23°C			
Frequency:	0.1- 2.0 GHz	Output Power @ 1dB Comp. Pt:	+ 0 dBm
Gain:	35 dB min.	Voltage/Current: DC Power	+8V VDC @60 mA, nom.
Gain Flatness:	± 1.0 dB max	Measured Current:	62 mA
VSWR Input:	2.0:1	Noise Figure:	0.10 dB, nom.
VSWR Output:	2.0:1 Z=50 Ohms	Outline: Model:	D4 EM 10179C

Note: Test data taken with case temperature of -200 °C

Frequency (GHz)	Gain (dB)	VSWR		Noise Figure (dB)	Output Power @ 1dB Comp. (+dBm)
		In	Out		
0.1	40.7	1.99	1.35	0.25	7
0.5	44.0	1.56	1.11	0.18	7
1.0	44.2	1.55	1.15	0.06	6
1.5	43.6	1.36	1.18	0.05	6
2.0	44.0	1.20	1.22	0.12	5

Data taken at 23°C unless otherwise stated.

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