



620 Johnson Avenue, Bohemia NY 11716 Tel: 631 521 7831 Fax: 631 521 7871

Serial Number: 114085
Model No.: APTC-1M500M-1000-D6-V

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

Specifications at 23°C			
Frequency:	1 MHz- 500 MHZ	Output Power @ 1dB Comp. Pt:	+ 0 dBm
Gain:	18 dB min.	Voltage/Current: DC Power	+10 VDC @50 mA, nom.
Gain Flatness:	± 3.0 dB max	Measured Current:	31 mA
VSWR Input:	2.5:1	Max. Noise Figure:	1.0 dB*
VSWR Output:	2.0:1 Z=50 Ohms	Outline: Model:	D6 EM 10650

SEE NEXT PAGE FOR "COLD" DATA

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

Frequency (MHz)	Gain (dB)	VSWR		Noise Figure (dB)	Output Power @ 1dB Comp. (+dBm)
		In	Out		
1.0	18.74	2.17	1.85	3.26	12.93
45.0	18.69	2.18	1.87	1.53	12.74
100.0	18.63	2.18	1.84	0.83	12.54
300.0	18.38	2.19	1.69	0.71	12.16
500.0	18.26	2.10	1.55	0.65	12.40

Data taken at 23°C unless otherwise stated.

COMMENTS: *NF SPECIFIED ABOVE 400 MHZ.* Do not apply DC Voltage to the INPUT. The maximum RF CW Input to the unit is +15 dBm. The power supply to the cryogenic LNA must be very "clean", i.e. +V +/- 0.1V p-p for proper operation and no transients can be allowed since the cryogenic amps have no internal regulation, over-voltage protection, or reverse voltage protection due to the cryogenic operation.

TESTER:  _____

DATE: 12/15/17

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



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Gain Flatness:	± 3.0 dB max	Measured Current:	31 mA
VSWR Input:	2.5:1	Max. Noise Figure:	1.0 dB*
VSWR Output:	2.0:1 Z=50 Ohms	Outline: Model:	D6 EM 10650

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

Frequency (MHz)	Gain (dB)	VSWR		Noise Figure (dB)	Output Power @ 1dB Comp. (+dBm)
		In	Out		
1.0	21.3	1.76	2.29	2.73	12.6
45.0	20.3	1.77	2.35	1.00	12.3
100.0	20.0	1.82	2.29	0.33	11.9
300.0	20.0	1.78	2.20	0.16	11.9
500.0	20.0	1.70	1.99	0.04	12.2

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