



1373 Lincoln Avenue, Holbrook NY 11741

Tel: 631 521 7831 Fax: 631 521 7871

Serial Number: 103020
Model No.: APTC2-02000400-0500-D2

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

Specifications at 23°C			
Frequency:	2- 4 GHz	Output Power @ 1dB Comp. Pt:	+ 0 dBm
Gain:	24/ 26 Goal dB min.	Voltage/Current: DC Power	+3 VDC @40 mA, nom.
Gain Flatness:	± N/A dB max	Measured Current:	41 mA
VSWR Input:	2.5:1 :1	Max. Noise Figure:	0.6/ 0.4 Goal dB
VSWR Output:	2.5:1 :1 Z=50 Ohms	Outline: Model:	D2 EM 10190A

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		
2	27.1	1.93	2.33	0.42	9
3	24.3	2.22	1.85	0.42	9
4	24.0	1.73	1.37	0.58	9

Data taken at 23°C unless otherwise stated.

COMMENTS: CAUTION: This is a cryogenic amplifier with NO internal voltage regulation. Apply voltage slowly to +3V MAX. to prevent damage.

TESTER: _____

DATE: 03/14/2008



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Specifications at 23°C			
Frequency:	2- 4 GHz	Output Power @ 1dB Comp. Pt:	+ 0 dBm
Gain:	24/ 26 Goal dB min.	Voltage/Current: DC Power	+3 VDC @40 mA, nom.
Gain Flatness:	± N/A dB max	Measured Current:	35 mA
VSWR Input:	2.5:1 :1	Max. Noise Figure:	0.6/ 0.4 Goal dB
VSWR Output:	2.5:1 :1 Z=50 Ohms	Outline: Model:	D2 EM 10190A

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		
2	28.5	2.07	2.34	0.01*	9
3	25.7	2.27	1.90	0.02*	9
4	25.2	1.74	1.44	0.01*	9

Data taken at 23°C unless otherwise stated.

COMMENTS: *N.F. is below uncertainty of measurement system. CAUTION: This is a cryogenic amplifier with NO internal voltage regulation. Apply voltage slowly to +3V MAX. to prevent damage.

TESTER: _____

DATE: 03/14/2008

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