

MTM

18 ... 26.5 GHz



Wideband GaN Amplifiers Modules

STANDARD MODELS

Model	Frequency Range GHz	Output Power	Input Power	Small Signal Gain	Gain Flatness	Gain Adj	Input VSWR
		min W	max dBm	min dB	max dB	max dB	typ / max
MTM1826-1	18 ... 26.5	1	0	33	±2	NA	1.5/2
MTM1826-5	18 ... 26.5	5	3	40	±3.5	NA	1.5/2
MTM1826-10	18 ... 26.5	10	5	43	±5	NA	1.5/2
MTM1826-20	18 ... 26.5	20	5	46	±5	NA	1.5/2

Model	Output VSWR typ / max	2nd Harmonic Power @ Psat typ / max dBc	3rd Harmonic Power @ Psat max dBc	Spur @ Psat typ / max dBc	IM3 typ / max dBc	Noise Floor typ / max dBm/MHz	Stability yes / no
MTM1826-1	2/2.5	-15/-10	-10	-65/-60	NA	-53/-50	Y
MTM1826-5	2.5/3	-15/-10	-10	-65/-60	NA	-53/-50	Y
MTM1826-10	2.5/3	-15/-10	-10	-65/-60	NA	-45/-40	Y
MTM1826-20	2.5/3	-15/-10	-10	-65/-60	NA	-45/-40	Y

Model	VSWR Load	Line Power VA	Dimensions (W,H, D)	Weight typ kg
MTM1826-1	3	100	TBD	TBD
MTM1826-5	3	200	TBD	TBD
MTM1826-10	3	300	TBD	TBD
MTM1826-20	3	500	TBD	TBD

STANDARD SPECIFICATIONS

Overdrive Protection: up to +10 dBm for no damage
 Input Impedance: 50 Ohm nominal
 Output Impedance: 50 Ohm nominal
 Noise Figure: 20 dB max.
 Class of Operation: AB-linear

GENERAL

RF Input: SMA-f; standard on front panel
 RF Output: SMA-f; standard on front panel;
 WR42
 Mains Supply: <600 VA DC 28V
 Ambient Temperature: 0 ... +45 °C
 Storage Temperature: -20 ... +65 °C

Relative Humidity: up to 95% (non-condensing)
 Operating Altitude: up to 2000 m above sea level
 Vibration and Shock: normal laboratory environment
 Cooling: forced air with integral blower
 air intake and exhaust at rear

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ACTUAL TESTING DATA

18-26.5G 5W test data

