



## 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
MTM0812-30	8 ... 12	30	0	47	±3.5	NA	1.5/2
MTM0812-50	8 ... 12	50	0	49	±3.5	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
MTM0812-30	2/2.5	-35/-30	-30	-65/-60	23/17	-47/-45	Y
MTM0812-50	2/2.0	-35/-30	-30	-65/-60	23/17	-47/-45	Y
Model	VSWR Load	Line Power					
		VA					
MTM0812-30	3	300					
MTM0812-50	3	600					

## STANDARD SPECIFICATIONS

Overdrive Protection:	up to 0 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;	
RF Output:	SMA-f;	
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	