



Wideband GaN Amplifiers Modules

STANDARD MODELS

Model	Frequency Range GHz	Output Power min W	Input Power max dBm	Small Signal Gain min dB	Gain Flatness max dB	Gain Adj max dB	Input VSWR typ / max
MTM0618-5	6 ... 18	5	0	37	±4	NA	1.5/2
MTM0618-10	6 ... 18	10	5	40	±4	NA	1.5/2
MTM0618-20	6 ... 18	20	5	43	±4	NA	1.5/2
MTM0618-40	6 ... 18	40	5	60	±4	NA	1.5/2
MTM0618-50	6 ... 18	50	3	60	±4	NA	1.5/2
MTM0618-100	6 ... 18	100	0	62	±5	NA	1.5/2
MTM0618-200	6 ... 18	200	0	65	±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
MTM0618-5	1.5/2	-15/-10	-10	-65/-60	-20/-17	-45/-40	Y
MTM0618-10	1.5/2	-15/-10	-10	-65/-60	-20/-15	-45/-40	Y
MTM0618-20	1.5/2	-15/-10	-10	-65/-60	-20/-15	-45/-40	Y
MTM0618-40	1.5/2	-15/-10	-10	-65/-60	-20/-15	-45/-40	Y
MTM0618-50	1.5/2	-15/-8	-10	-65/-60	-20/-15	-45/-40	Y
MTM0618-100	1.5/2	-15/-8	-10	-65/-60	-20/-15	-40/-35	Y
MTM0618-200	1.5/2	-15/-8	-10	-65/-60	-20/-15	-40/-35	Y

Model	VSWR Load	Line Power VA	Dimensions (W,H, D)	Weight typ kg
MTM0618-5	3	100	TBD	TBD
MTM0618-10	3	100	160x80x30	1
MTM0618-20	3	300	185x100x30	1.15
MTM0618-40	3	500	170x90x35	1.35
MTM0618-50	3	600	230 x120 x35	1.75
MTM0618-100	3	1500	TBD	TBD
MTM0618-200	3	2000	TBD	TBD

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 ... +50°C  
 Storage Temperature: -20 ... +65 °C

MTM

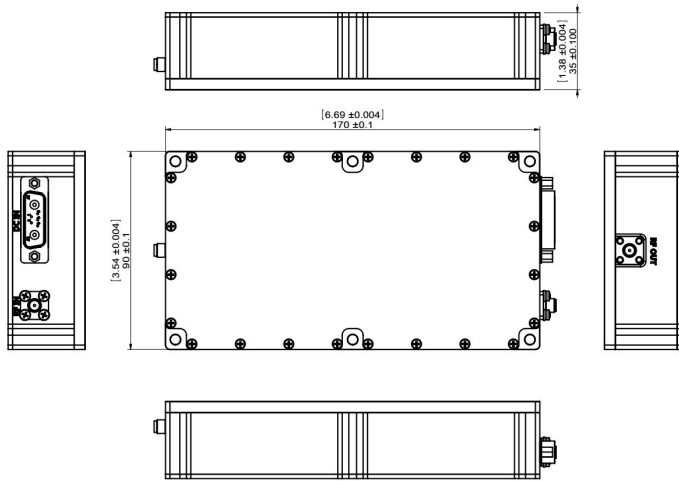
6 ... 18 GHz



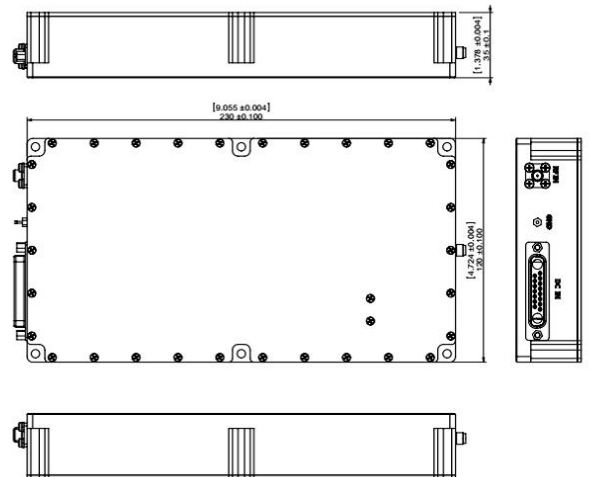
# Wideband GaN Amplifiers Modules

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

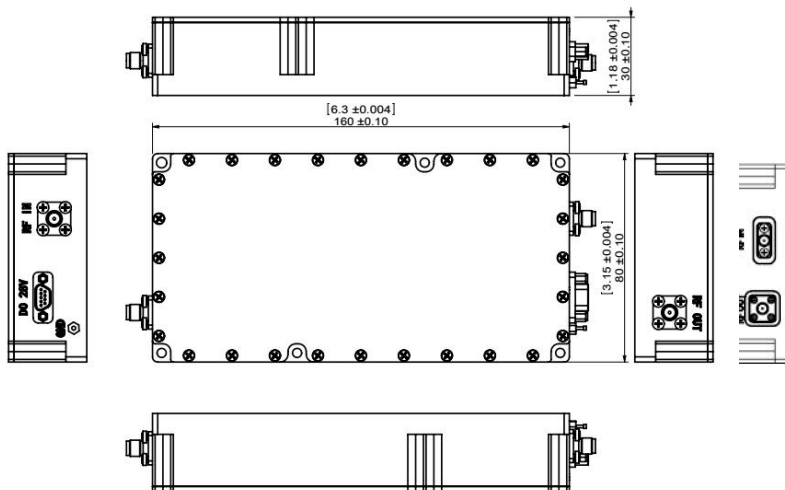
## Outline



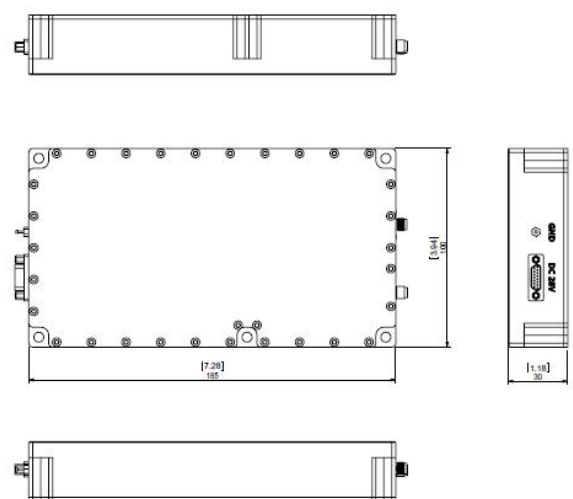
6-18GHz 40W(Unit:inch/mm)



6-18GHz 50W(Unit:inch/mm)



6-18GHz 10W(Unit:inch/mm)



6-18GHz 20W(Unit:inch/mm)



# Wideband GaN Amplifiers Modules

ACTUAL TESTING DATA

6-18GHz 40W datas

