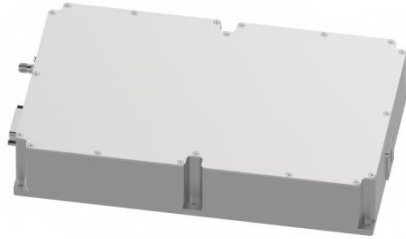


LINEAR WIDEBAND POWER AMPLIFIER

Model – MB018040G414018



15watts 18GHz – 40GHz CW Mode

General Description:

A broadband Class AB GaN RF power amplifier module engineered for commercial, military, automotive, and other high-reliability applications. The rugged design leverages state-of-the-art high-power RF transistors to ensure dependable, long-term performance.

Like all Elite RF amplifiers, the product comes with an industry leading warranty.

Features

Wide Freq. Range
High Output Power
High Gain
High Reliability
High Ruggedness

Protections

Built-in Protection

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	18000		40000	MHz
Output Power CW	Psat	15			Watt
Output Power at 1 dB Compression	P1dB	-			Watt
Gain	Gp	40			dB
Gain Flatness at 200MHz step show in test report	Delta Gp 1		+/- 5		dB
Input VSWR at 50 ohm	S11			2.5:1	Ratio
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage (3ΦY-5Wire)	VAC		18		Volts
Power Consumption	P			250	Watt
Input Power	Pin			5	dBm

ENVIRONMENTAL CHARACTERISTICS

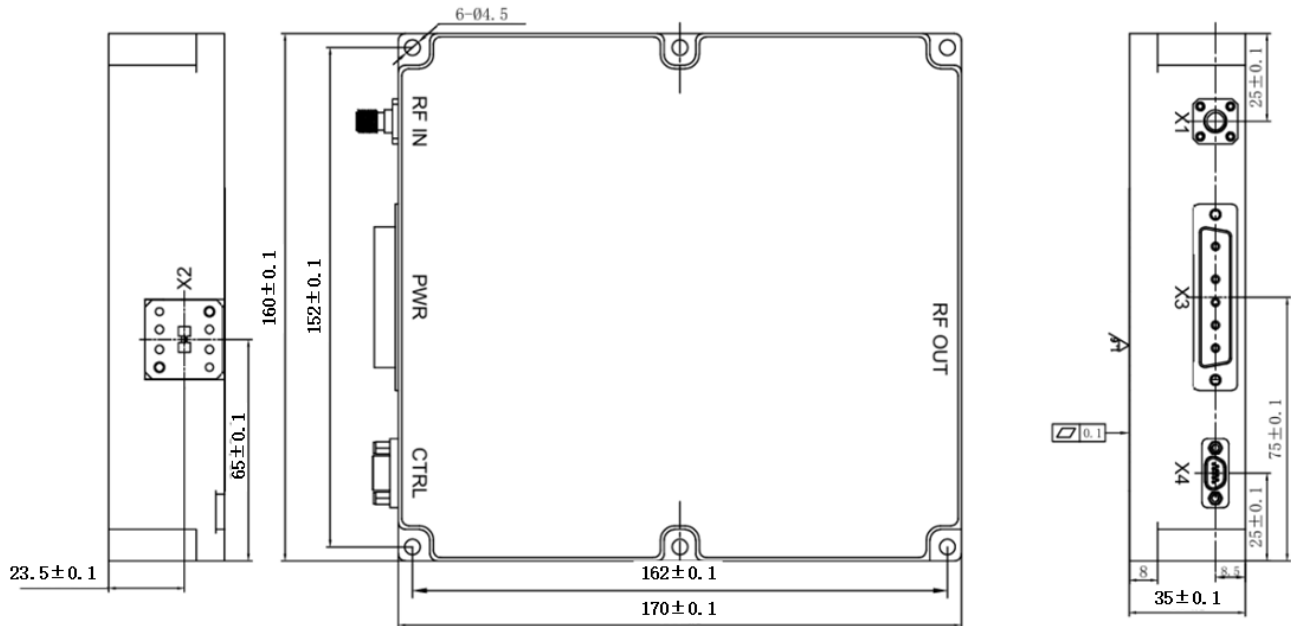
Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	-10		+40	Deg. C
Storage Temperature	Tstg	-40		+75	Deg. C
Relative Humidity (non-condensing)	RH	5		95	%
Vibration/Shock	VI /SH		Normal Truck Transport		

MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		6.69 × 6.30 × 1.38		inch
Weight	Wt.			1	kg
Connectors In/Out	RF Conn		2.92-K/WRD180		-
Cooling	Th		Forced Air Cooling		-
Control Interface	CI		-		-

Outline Drawings

(Just for Reference)



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Rev2 01/24/2025:
Specifications subject to change, consult
sales for latest information