



500~2700MHz
100W
Amplifier

Item # 70-238

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A wide band amplifier for use in 500~2700MHz band. Designed with the latest available components, the unit delivers 100 Watt output at very high efficiency. Unit is designed with Tx enable circuit to conserve power. For higher power radios, lower gain version with 12 dB transmit gain available for improved efficiency.

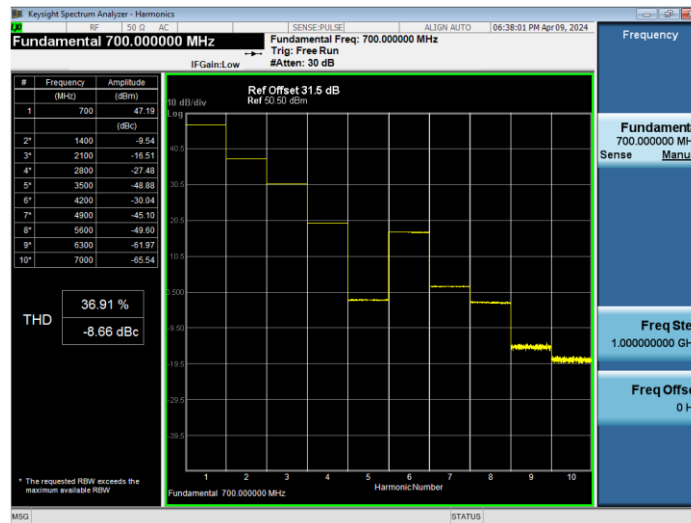
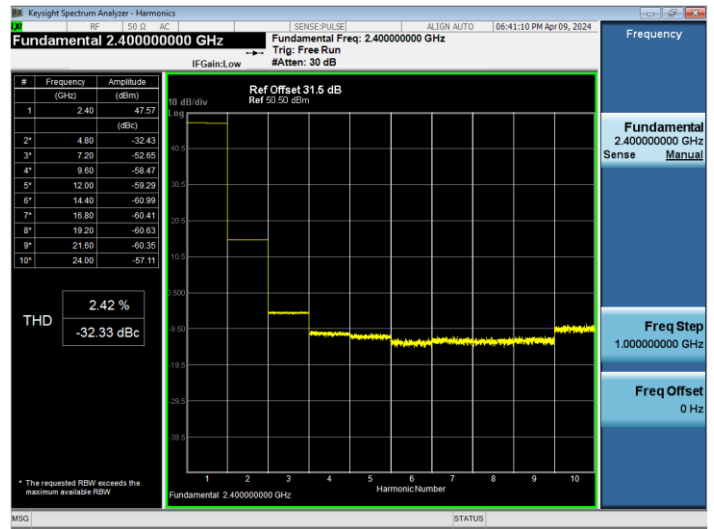
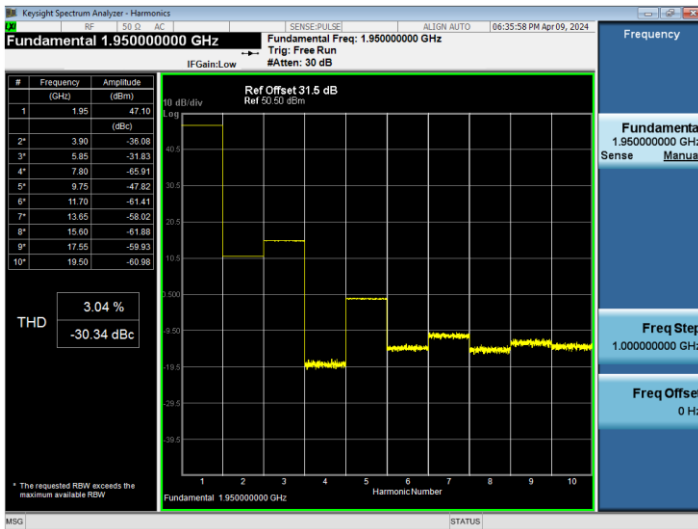
Due to the high RF power output this unit is only offered for sale to Military, OEM Licensed, or overseas customers.



Specifications

Operating Range	500~2700 MHz
Transmit Peak Power	50 dBm (100 Watt)
Transmit Gain	41 dB (+/-3.5) 12 dB optional
Transmit Input Power	-10 dBm
Small Signal Gain	43 dB (+/-3.5)
Large Signal Gain	36 dB (+/-3.5)
Maximum Load VSWR	@ 100 W = 20:1
Harmonics 1950MHz	@ 50 W = -30 dBc
Harmonics 2.4GHz	@ 50 W = -32 dBc
Harmonics 700MHz	@ 50 W = -8 dBc
LED Indicators	Red = Standby (Default mode); Green = Transmit Power
Current Draw @ 48 V _{DC} :	20 mA Standby 1.6 A @ 10 W 2.1 A @ 20 W 3.1 A @ 40 W 3.5 A @ 50 W 6.0 A @ 100 W
Operating Temperature	-40 °C to + 65 °C - with appropriate heatsink
Temperature LED	Blue <40 °C, Green <70 °C, Red >70 °C
Storage Temperature	-40 °C to +70 °C
Dimensions	6" x 5.25" x 1.25"
Weight	2.36 lbs without heatsink
Connector Type	Type N Female
Shock/Vibration	Normal truck transport

Harmonics Plots



I/O & Sweep Plots
(Tx Gain = 40 dB)

