

MP2B 400MHz to 3GHz is a wideband, High efficiency GaN Power amplifier suitable for use in a manpack/portable ECM application.

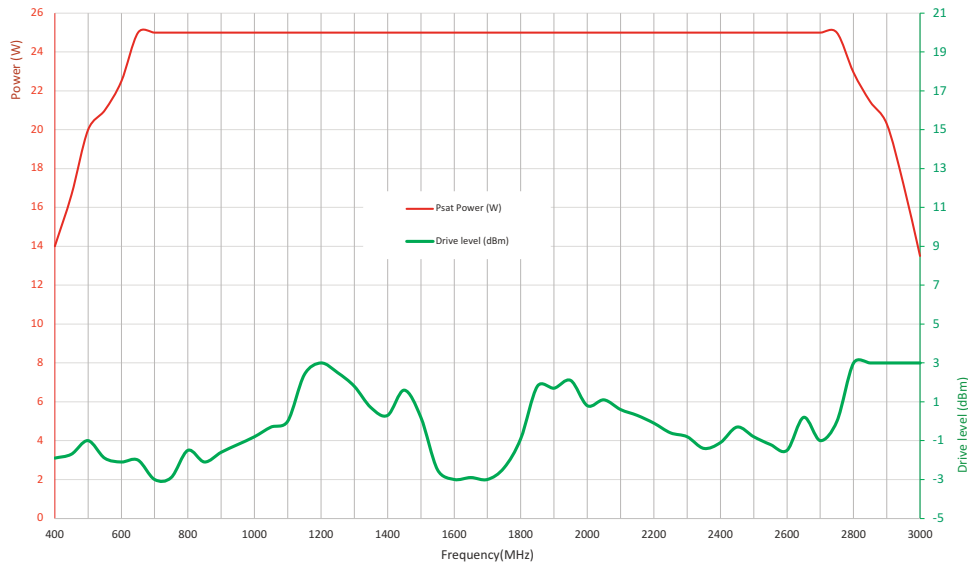


PRODUCT FEATURES

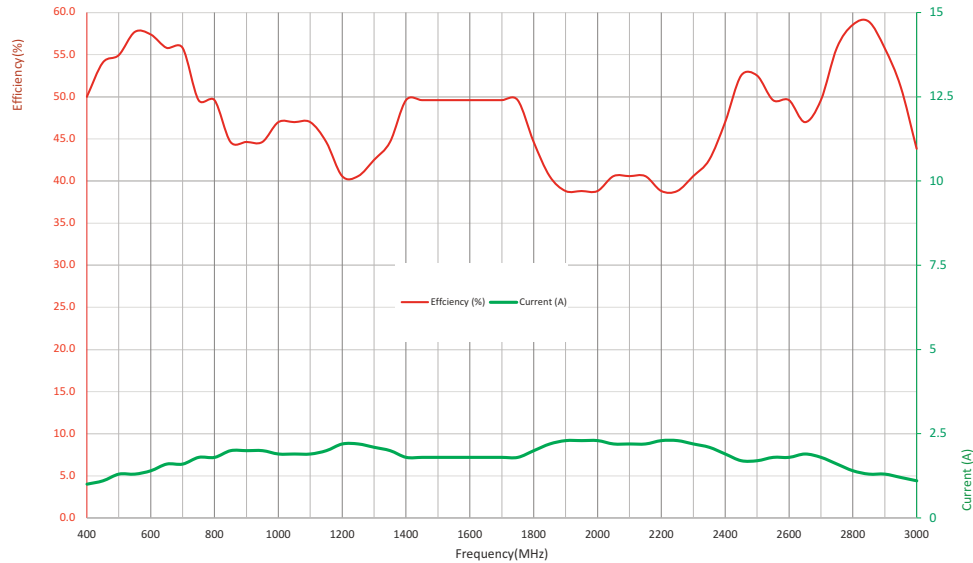
- Broadband Power
- Max power 25W
- 200ns Sargas 2 switching
- 50% Efficiency
- Compact, lightweight, Robust

PARAMETER	MINIMUM	MAXIMUM	TYPICAL	COMMENTS
Frequency	400 MHz	3GHz		
Psat Power	15W	25W	20W	70W Maximum DC power consumption @ 28V
Large Signal Gain			44dB	
Input Drive	-3dB	+3dB		For Psat or 25W Max
Input return loss			-10dB	
2nd Harmonics	-30dBc	-9dBc	-15dBc	
Current at Psat or 25W		2.5A	2A	
Efficiency at Psat or 25W			50%	@ 28V
Noise Figure	7dB	15dB		
Input Voltage	22V	30V	28V	Predictable power variation with voltage
Sargas2 Mute Rise time			150ns	0% to 100% from clock edge
Sargas2 Mute Fall time			200ns	100% to 0% from clock edge
Sargas2 Mute isolation			-35dBc	Pin 5
Shutdown Current			150mA	Pin 4
Intermodulation	-	-15dBc	-25dBc	Two 5W tones, 1MHz Spacing
Dimensions LxWxH				100mm x 55mm x 30mm
Weight			200g	
Connectors				SMA & 9 Pin D-type
Operating Temperature	-20°C	+80°C		Temperature measured at PA Case
Storage temperature	-40°C	+85°C		
Thermal Protection				Cut out operates at 85°C ± 5°C
Open/short Survivability				10:1 VSWR at all phase angles

MP2B Psat Power / Drive level



MP2B Efficiency / Current



MP2B 9 Pin D-Type Connector

PIN	DESCRIPTION	SPECIFICATION
4	Standard Shutdown	Enable "low" (GND) Disable "High" (2.5 to 3.3V) or Disconnected (floating)
5	Enhanced Mute (Sargas 2)	Disable "low" (GND) Enable "High" (2.5 to 3.3V) or Disconnected (floating)
6,7	VDD	+28V DC
8,9	GND	Ground