

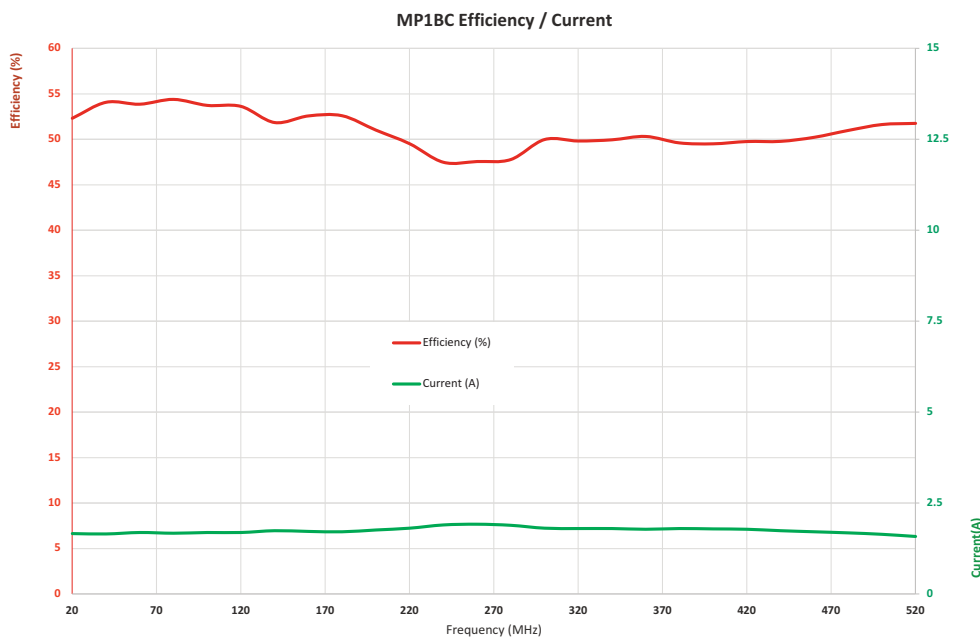
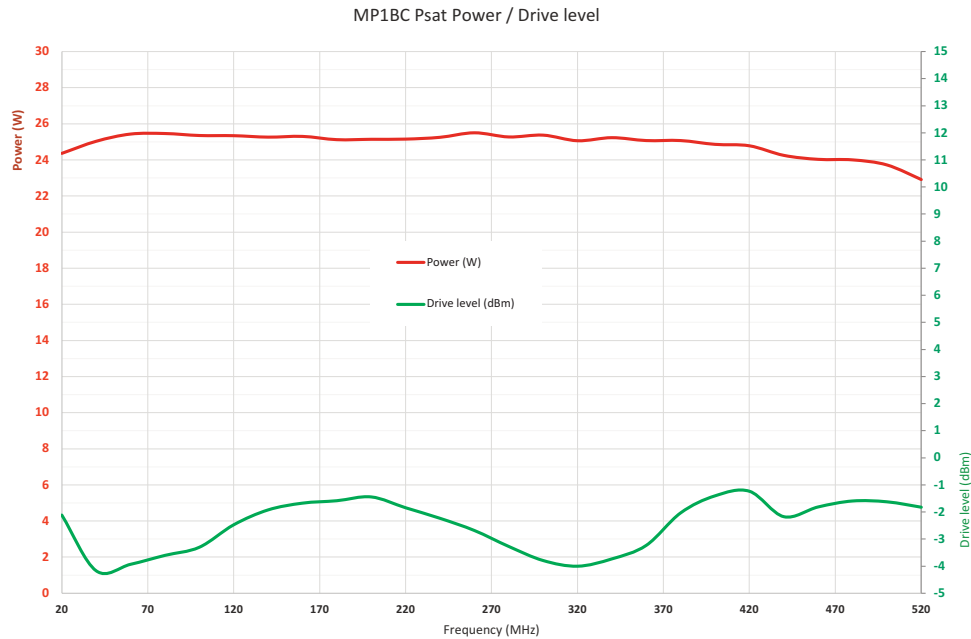
MP1BC 20MHz to 520MHz is a wideband, High efficiency GaN Power amplifier suitable for use in a manpack/portable ECM application.



PRODUCT FEATURES

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

PARAMETER	MINIMUM	MAXIMUM	TYPICAL	COMMENTS
Frequency	20 MHz	520 MHz		
Psat Power @ 28V	25W	30W	27W	Typical 30W at 32V
Large Signal Gain			44dB	@ 28V
Input Drive	-1dB	+2dB		+2dBm for Psat Power
Input Return Loss			-10dB	
2nd Harmonics		-10dBc	-15dBc	
Current at Psat		2.A	1.8A	@ 28V
Efficiency at Psat		55%	50%	@ 28V
Noise figure	6dB	10dB		
Input voltage	22V	32V	28V	Predictable power variation with voltage
Sargas2 Mute rise time			400ns	0% to 100% from clock edge
Sargas2 Mute fall time			200ns	100% to 0% from clock edge
Sargas2 Mute isolation			-30dBc	Pin5
Intermodulation @28V		-15dBc	-25dBc	Two 5W tones, 1MHz Spacing
Dimensions WxLxH				120mm x 55mm x 30mm
Weight			260g	Integrated without housing @ approx 50g
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



MP1BC 9 Pin D-Type Connector

PIN	DESCRIPTION	SPECIFICATION
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