

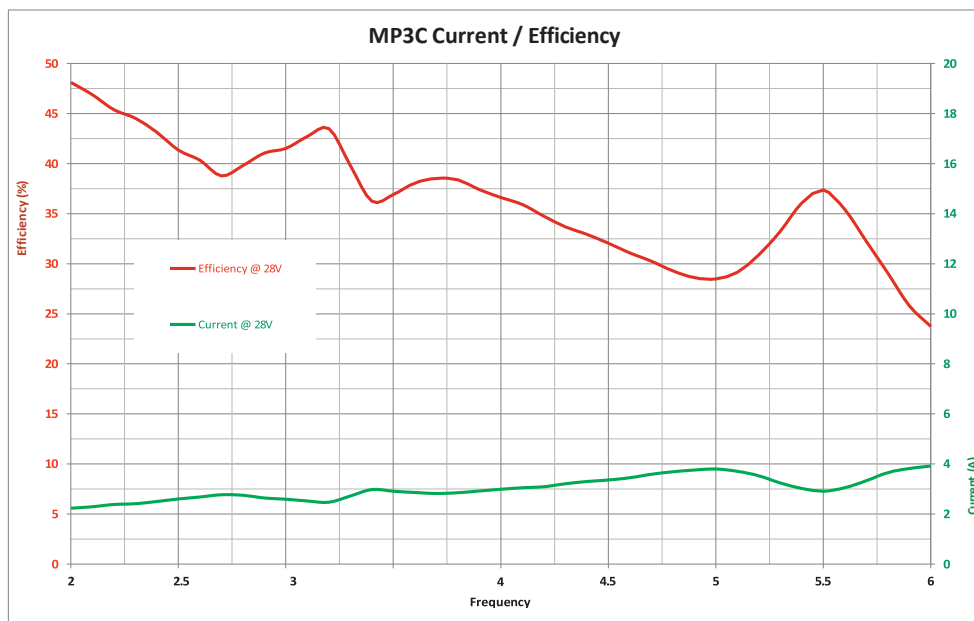
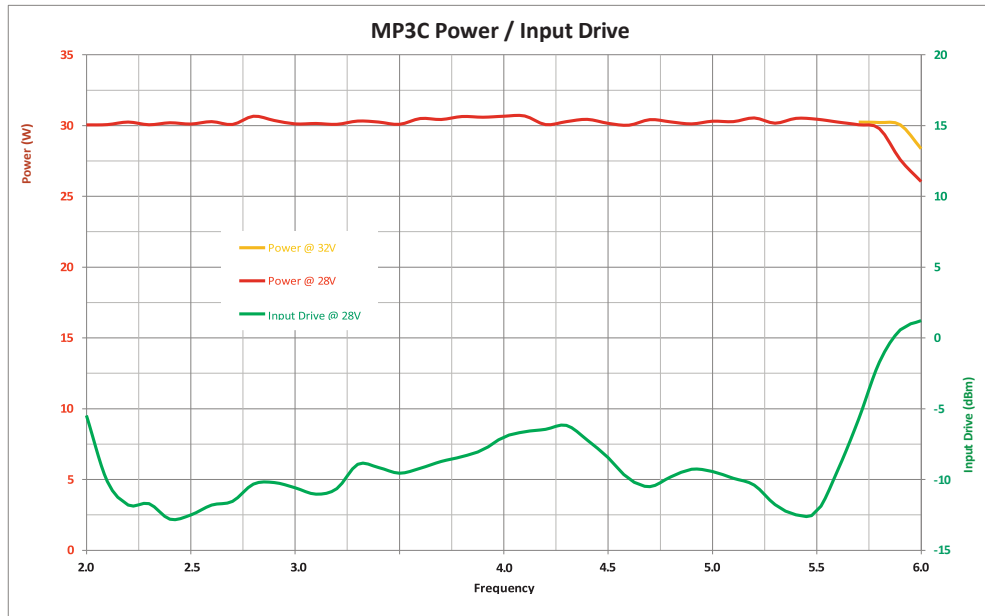
MP3C 2.0GHz to 6GHz is a wideband GaN Power Amplifier suitable for use in a variety of ECM applications, particularly where size and broadband high frequency power is important on the application platform.



### PRODUCT FEATURES

- 2.0GHz to 6GHz
- Max Power 30W
- 200ns Sargas 2 switching
- 45% Efficiency
- Compact, lightweight, Robust

PARAMETER	MINIMUM	MAXIMUM	TYPICAL	COMMENTS
Frequency	2.0GHz	6GHz		
Power @ 28V	20W	30W	27W	Psat or 30W
Power @ 32V	25W	30W		Psat or 30W
Large signal Gain			46dB	Psat or 30W
Input Drive	-10dB	+5dB		Psat or 30W
Input return loss			-10dB	
2nd Harmonics	-10dBc	-20dBc	-25dBc	Psat or 30W
Current at Psat or 30W		4.5A	3A	Supply Voltage 28V
Efficiency at Psat or 30W			35%	Supply Voltage 28V
Noise Figure	10dB	15dB		
Input Voltage	22V	32V	28V	Predictable power variation with voltage
Sargas2 Mute Rise time			300ns	0% to 100% from clock edge
Sargas2 Mute Fall time			300ns	100% to 0% from clock edge
Sargas2 Mute isolation			-35dB	Pin 5
Shutdown Current			50mA	Pin 4
Intermodulation		-20dBc	-25dBc	Two 5W tones, 1MHz Spacing
Dimensions LxWxH				120mm x 55mm x 30mm
Weight			250g	
Connectors				SMA & 9 Pin D-type
Operating Temperature	-20°C	+80°C		Temperature Measured on 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



### MP3C 9 Pin D-Type Connector

PIN	DESCRIPTION	SPECIFICATION
4	Standard Shutdown	Enable "low" (GND) Disable "High" (2.5 to 3.3V) or Disconnected (floating). Absolute max voltage 5.5V, Absolute maximum switching frequency 50kHz.
5	Enhanced Mute (Sargas 2)	Disable "low" (GND) Enable "High" (2.5 to 3.3V) or Disconnected (floating). Absolute max voltage 5.5V, Absolute maximum switching frequency 50kHz.
6,7	VDD	+28V DC. Absolute maximum voltage 34V
8,9	GND	Ground