

VM2F 500MHz to 2.7GHz is a wideband, high efficiency GaN Power Amplifier suitable for use in a variety of ECM applications. It is particularly effective where high efficiency is important on the application platform.



PRODUCT FEATURES

- Broadband 500MHz to 2.7GHz
- Max Pout 70W
- 200ns Sargas2 Switching
- -40dBc Mute Isolation
- 50% Peak Efficiency

PARAMETER	MINIMUM	MAXIMUM	TYPICAL	COMMENTS
Frequency	500MHz	2.7GHz		
Psat or 70W Power	55W	70W	65W	
Large Signal Gain			55dB	
Input Drive	-10dBm	0dBm	-6dBm	For Psat or 70W Max
Input Return Loss			-10dB	
2nd Harmonics	-40dBc	-10dBc	-25dBc	For Psat or 70W Max
Current at Psat or 70W	5A	7.5A	7A	@28V
Efficiency at Psat or 70W	30%	50%	40%	@ 28V
Input Voltage	22V	32V		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	-30dB	-40dB		Pin 5
Shutdown Current		200mA	190mA	Pin 4
Intermodulation		-25dBc	-30dBc	Two 10W Tones, 1MHz Spacing
Dimensions LxWxH				187mm x 91.5mm x 30mm
Weight			700g	
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

VM2F Power / Drive level



VM2F Efficiency / Current



VM2F 9-way D-type Interface

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

This product is designed and manufactured in the United Kingdom in accordance with the ISO 9001:2015 Quality Management System. RoHS compliant parts and processes are used in the manufacture of this product.