

PRODUCT DATASHEET v2

VMZ1J 20MHz-520MHz 140W Psat GaN PA



- Broadband 20MHz to 520MHz
- 140W Psat
- 50% Typical Efficient
- -18dBc 2nd Harmonic
- <20µS Mute time
- FPGA based EUC Telemetry Option

VMZ1J 20MHz TO 520MHz is a high power GaN Power Amplifier suitable for use in a variety of ECM applications.

PARAMETER	MINIMUM	MAXIMUM	TYPICAL	COMMENTS
Frequency	20MHz	520MHz		Wider bandwidth available
Power Psat	100W	150W	120W	Tuned for optimum Psat performance
Power P1dB			80W	Designed for Psat Application
Gain	49dB		50dB	Max Input Power+7dBm
Gain variation		±1.5dB		@Psat
Harmonics		-17dBc	-23dBc	2nd Harmonic @ Psat
Current Consumption		10A	9A	Supply Voltage 28V
Efficiency		55%	50%	
Switching Speed/Mute			20µs	<1µs switching option
Intermodulation		-17dBc	-20dBc	Two 20W Tones, 1MHz Spacing
Dimensions WxLxH				91mm x 187mm x 33mm
Weight			700g	
Connectors				SMA & 9 Pin D-type
Operating Temperature	-20°C	+80°C		
Open/Short Survivability				Pass

VMZ1J OUTLINE DRAWING



