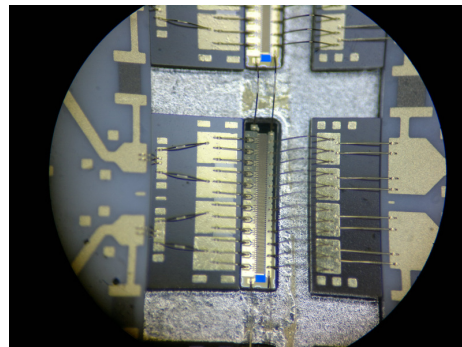


MICROWAVE TECHNOLOGY

20 Watt X-BAND GaN POWER MODULE



The MTL-810-10-20PAG is a GaN based solid state power amplifier module designed for pulsed applications and operates over the frequency range 8.0 to 10.0 GHz. The power amplifier is offered as a drop-in module on a mechanical carrier. The power amplifier module is designed and manufactured for high reliability and consistent unit to unit performance.

Electrical specification specified at 25°C case temperature

SPECIFICATION	MIN	TYP	MAX	UNITS
Frequency Range	8.0		10.0	GHz
Small Signal Gain		10		dB
Gain Flatness		±0.35		dB
Saturated output power		43		dBm
Input VSWR			2:1	
Output VSWR			2:1	
Pulse width		10		µs
Duty cycle		10		%
Drain DC voltage		32		V
Drain DC current (Idq)		125		mA
Gate voltage		-2.7		V
Power added efficiency		35		%

(Specification subject to changes without notice)

Absolute Maximum Ratings

Parameter	Value/Type	Units
Drain DC voltage	40	V
Gate DC voltage	-10	V
Drain DC current (Id)	3.0	A
Gate current (Ig)	-5 to 8	mA
CW Input power	+34	dBm
Operating temperature	-40 to +85	°C
Storage temperature	-55 to +95	°C

Mechanical Specifications

Parameter	Value/Type	Units	Limits
Dimensions	12(L) x 18(W) x 2(H)	mm	
Weight	8	Grams	Max
Cooling	External Heat Sink Required		