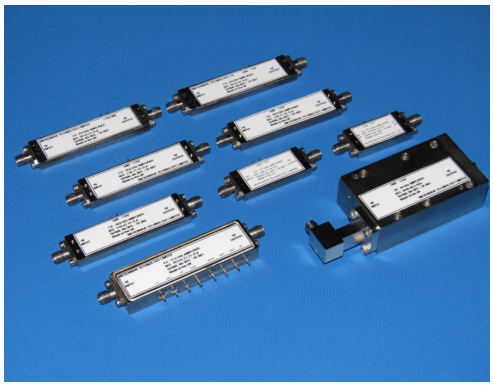
MICROWAVE
TECHNOLOGY

15 Watt X–BAND POWER AMPLIFIER



The MTL-92104-30-15PAP is a GaAs based solid state power amplifier designed for pulsed applications and operates over the frequency range 9.2 to 10.4 GHz. The amplifier is offered in a low profile mechanical housing which incorporates integral DC regulation. The amplifier 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	9.2		10.4	GHz
Small Signal Gain		30		dB
Gain Flatness			±1.5	dB
Saturated output power		42		dBm
Input VSWR		2:1		
Output VSWR		2:1		
Pulse width		50		us
Duty cycle		20		%
DC voltage		12		V
DC current		4800		mA
Power added efficiency		25		%

(Specification subject to changes without notice)

Microwave Technology Limited
Northampton Science Park
39 Caxton House
Northampton NN3 6LG
Tel.: 44(0)1604 654 820
Email: sales@microwavetechnology.co.uk
Website: www.microwavetechnology.co.uk

Part No: MTL-92104-30-15PAP
Data sheet Issue 01: 05/08/2018

Absolute Maximum Ratings

Parameter	Value/Type	Units
Drain DC voltage	20	V
CW Input power	+20	dBm
Operating temperature	-40 to +85	◦C
Storage temperature	-55 to +95	◦C

Mechanical Specifications

Parameter	Value/Type	Units	Limits
Dimensions	65(L) x 38(W) x 20(H)	mm	
Weight	150	Grams	Max
RF Connectors Input/Output	SMA		
Cooling	External Heat Sink Required		

Microwave Technology Limited
Northampton Science Park
39 Caxton House
Northampton NN3 6LG
Tel.: 44(0)1604 654 820
Email: sales@microwavetechnology.co.uk
Website: www.microwavetechnology.co.uk