



M105 Series Fixed Frequency Oscillators



DESCRIPTION

The M105 Series of Fixed Frequency Oscillators operate up to 2500MHz with high frequency stability. A sinusoidal output delivers the specified power level into a 50Ω load. The device has a 6-sided EMI shield and a surface mount mechanical attachment.

ABSOLUTE MAX RATINGS

Operating Temp. Range (Case) 0°C to +70°C
 Storage Temp. Range (Ambient) -40°C to +100°C
 Power Supply Voltage +5.5 Vdc
 Output Current 50mA

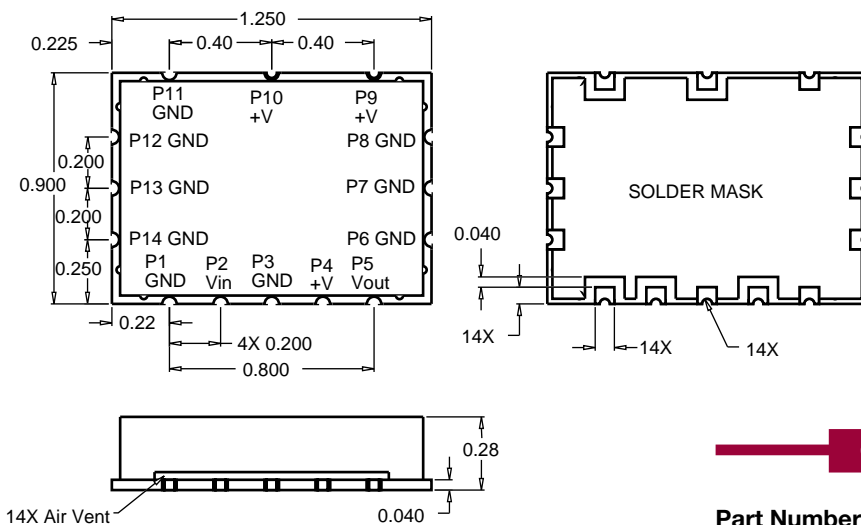
SPECIFICATIONS

Specifications @ $V_{cc} = +3.3$ Volts and $T_A = +25^{\circ}\text{C}$ unless otherwise specified

PARAMETER	Min	Typ	Max	Units
Output Frequency Range	1500		2500	MHz
Frequency Stability (0°C to +70°C)	-30		+30	ppm
Output Levels ¹				
1500MHz	+5		+7.5	dBm
2000MHz	+4		+6.5	dBm
2500MHz	-1		+1	dBm
Output Phase Jitter			6	psec (rms)
Duty Cycle	45		55	%
Power Supply Voltage	+4.75		+5.25	Volts
Power Supply Current			80	mA

Note 1: Load = 50Ω

MECHANICAL DIMENSIONS



Note: The V_{in} pad indicated above will have no connection.

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ORDERING INFORMATION

Part Number

M105P2488.3200

(i.e. 2488.32MHz center frequency)

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