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Voltage-Controlled Oscillator Surface Mount Module

 $\mathcal{L}(f)$ (dBc/Hz)

Applications

- Satellite Up/Down Converters
- Microwave Links
- Broadcast Equipment

Application Notes

- AN-101: Mounting and Grounding
- AN-102: Output Loading
- AN-107: Manual Soldering

OFFSET (Hz)

Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	3220		3844	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-80		dBc/Hz
Harmonic Suppression (2nd)		-21	-18	dBc
Tuning Voltage	0.5		5	Vdc
Tuning Sensitivity (avg.)		165		MHz/V
Power Output	2	5.5	9	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			15	MHz/V
Pulling (12 dB Return Loss, Any Phase)			15	MHz
Operating Temperature Range	-20		70	$^{\circ}\text{C}$
Package Style		MINI-14S		

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		20	25	mA

Additional Notes

Tuning Curve, typ.

FREQUENCY (MHz)

- 70 °C
- 25 °C
- -20 °C

TUNING VOLTAGE (Vdc)

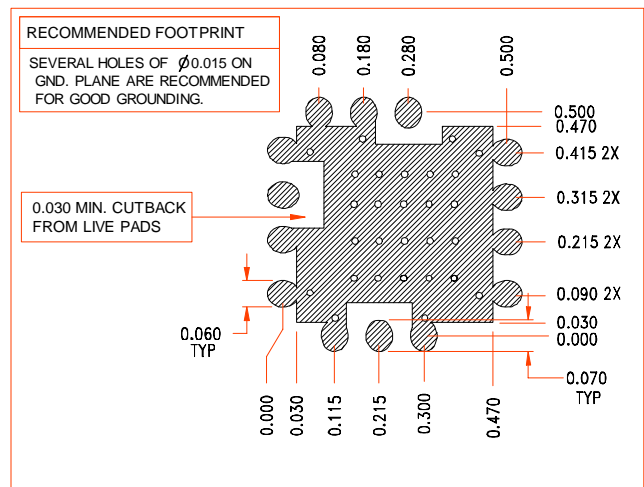
Power Curve, typ.

Footprint

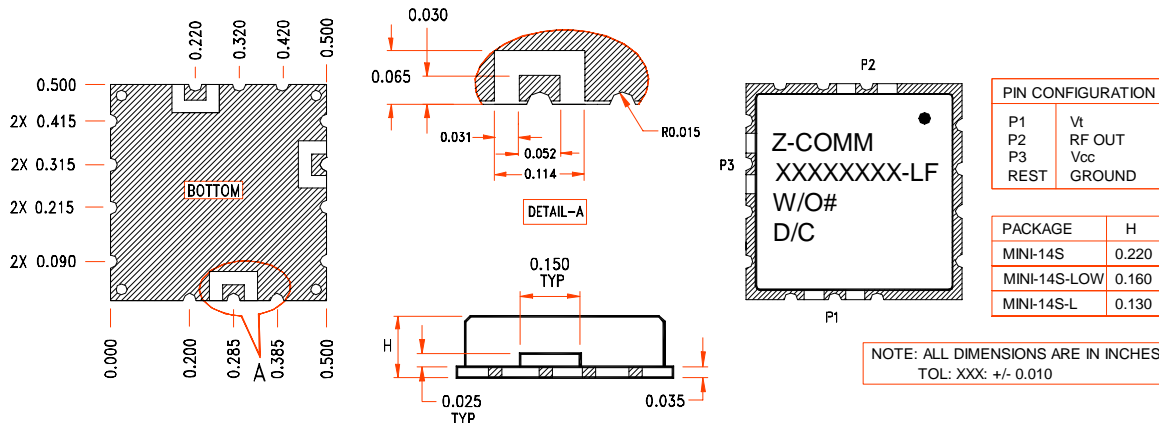
POWER OUTPUT (dBm)

FREQUENCY (MHz)

- 70 °C
- 25 °C
- -20 °C



Physical Dimensions



LFSuffix = RoHS Compliant. All specifications are subject to change without notice.