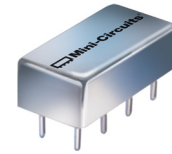


# Non-Catalog Model

## Voltage Controlled Oscillator

**POS-2000+**  
**POS-2000**



CASE STYLE: A06

**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Important Note

This is a non-catalog model and can be manufactured on specific request. Pricing and delivery information can be supplied upon request.

Please click "Back", and then click "Contact Us" for Applications support.

ELECTRICAL SPECIFICATIONS 50Ω				
Parameter	Min.	Typ.	Max.	Units
Frequency	1370		2000	MHz
Tuning Voltage	1.0		20	V
Power Output		+10		dBm
Phase Noise				
at 1 kHz offset		-70		dBc/Hz
at 10 kHz offset		-95		dBc/Hz
at 100 kHz offset		-115		dBc/Hz
at 1000 kHz offset		-135		dBc/Hz
Pulling at 12 dB <sub>r</sub> PK-PK all phases		28		MHz
Pushing		1.5		MHz/V
Tuning Sensitivity		30-50		MHz/V
Harmonic Suppression		-11		dBc
3dB Modulation Bandwidth		1000		MHz
Supply Voltage		8		V
Supply Current			30	mA

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (V <sub>cc</sub> )	+10V
Absolute Max. Tuning Voltage (V <sub>tune</sub> )	+22V

PIN CONNECTIONS	
RF OUT	2
VCC	1
V-TUNE	8
GND EXT	3,4,5,6,7

#### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

