

# Engineering Development Model

## Voltage Controlled Oscillator

ROS-ED14919/1

### Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

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CASE STYLE : CK1113

ELECTRICAL SPECIFICATIONS 50Ω				
Parameter	Min.	Typ.	Max.	Units
Frequency	1550		2050	MHz
Tuning Voltage	.25		16	V
Power Output		5.5		dBm
Phase Noise				
at 1 kHz offset		-78		dBc/Hz
at 10 KHz offset		-102		dBc/Hz
at 100 KHz offset		-122		dBc/Hz
at 1000 kHz offset		-142		dBc/Hz
Pulling at 12 dBm PK-PK all phases		6		MHz
Pushing at Vcc ± 5%		.2		MHz/V
Tuning Sensitivity		38-45		MHz/V
Harmonic Suppression		-20		dBc
3 dB Modulation Bandwidth		110,000		kHz
Supply Voltage		8		V
Supply Current			34	mA

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Supply Voltage (Vcc)	+10V
Absolute Tuning Voltage (Vtune)	+18V

PIN CONNECTIONS	
RF OUT	10
VCC	14
V-TUNE	2
GROUND	1,3,4,5,6,7,8,9,11,12,13,15,16



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site  
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)



IF/RF MICROWAVE COMPONENTS



REV. X1  
ROS-ED14919/1  
8/2/2012  
Page 1 of 1