

## Engineering Development Model

### Voltage Controlled Oscillator

ROS-EDR11294/1

#### 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 : 99-01-2041

ELECTRICAL SPECIFICATIONS 50Ω				
Parameter	Min.	Typ.	Max.	Units
Frequency	1710		2500	MHz
Tuning Voltage	0.25		10.0	V
Power Output		+6.5		dBm
Phase Noise				
at 1 kHz offset		-68		dBc/Hz
at 10 KHz offset		-94		dBc/Hz
at 100 KHz offset		-117		dBc/Hz
at 1000 kHz offset		-137		dBc/Hz
Pulling at 12 dBm PK-PK all phases		7.9		MHz
Pushing at Vcc=10V±0.5V		1.6		MHz/V
Tuning Sensitivity		84 - 105		MHz/V
Harmonic Suppression		-19		dBc
3 dB Modulation Bandwidth		120000		kHz
Supply Voltage		10		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)	+10.5V
Absolute Tuning Voltage (Vtune)	+12V

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

#### Notes

A. 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.  
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.  
C. 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/MCStore/terms.jsp](http://www.minicircuits.com/MCStore/terms.jsp)



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