

## Engineering Development Model

### Voltage Controlled Oscillator

ROS-EDR9693

#### 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	3356		3607	MHz
Tuning Voltage	1.5		10.5	V
Power Output		+5.5		dBm
Phase Noise				
at 1 kHz offset		-66		dBc/Hz
at 10 KHz offset		-95		dBc/Hz
at 100 KHz offset		-119		dBc/Hz
at 1000 kHz offset		-141		dBc/Hz
Pulling at 12 dBm PK-PK all phases		3.4		MHz
Pushing at Vcc=8V±0.4V		0.2		MHz/V
Tuning Sensitivity		34 - 50		MHz/V
Harmonic Suppression		-26	-14	dBc
3 dB Modulation Bandwidth		115000		kHz
Supply Voltage		8		V
Supply Current			35	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)	+12.5V

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-Circuit's 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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