

## Engineering Development Model

### Voltage Controlled Oscillator

ROS-EDR11017/1MP

#### 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	4347		4351	MHz
Tuning Voltage	0		5.0	V
Power Output		+0.5		dBm
Phase Noise				
at 1 kHz offset		-86		dBc/Hz
at 10 KHz offset		-112		dBc/Hz
at 100 KHz offset		-132		dBc/Hz
at 1000 kHz offset		-151		dBc/Hz
Pulling at 12 dBm PK-PK all phases		0.5		MHz
Pushing at $V_{cc}=5V \pm 0.25V$		1.7		MHz/V
Tuning Sensitivity		14 - 15		MHz/V
Harmonic Suppression		-28	-20	dBc
3 dB Modulation Bandwidth		70000		kHz
Supply Voltage		5		V
Supply Current			27	mA

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Supply Voltage ( $V_{cc}$ )	+7V
Absolute Tuning Voltage ( $V_{tune}$ )	+7V

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.  
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