

# Engineering Development Model

## Voltage Controlled Oscillator

ROS-ED13857A/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 : CK605

ELECTRICAL SPECIFICATIONS 50Ω				
Parameter	Min.	Typ.	Max.	Units
Frequency	453		504	MHz
Tuning Voltage	0.5		4.5	V
Power Output		0		dBm
Phase Noise				
at 1 kHz offset		-88		dBc/Hz
at 10 KHz offset		-115		dBc/Hz
at 100 KHz offset		-135		dBc/Hz
at 1000 kHz offset		-155		dBc/Hz
Pulling at 12 dBm PK-PK all phases		0.7		MHz
Pushing at Vcc ± 5%		2.0		MHz/V
Tuning Sensitivity		13-19		MHz/V
Harmonic Suppression		-18		dBc
3 dB Modulation Bandwidth		13,000		kHz
Supply Voltage		5		V
Supply Current			19	mA

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Supply Voltage (Vcc)	+6V
Absolute Tuning Voltage (Vtune)	+6V

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



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

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