

# Engineering Development Model

## Voltage Controlled Oscillator

## ROS-ED14400/2

### 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	273		314	MHz
Tuning Voltage	.5		4.5	V
Power Output		0		dBm
Phase Noise				
	at 1 kHz offset		-87	dBc/Hz
	at 10 KHz offset		-116	dBc/Hz
	at 100 KHz offset		-136	dBc/Hz
at 1000 kHz offset		-156	dBc/Hz	
Pulling at 12 dB <sub>r</sub> PK-PK all phases		0.5		MHz
Pushing at V <sub>cc</sub> ± 5%		2.5		MHz/V
Tuning Sensitivity		15-19		MHz/V
Harmonic Suppression		-18		dBc
3 dB Modulation Bandwidth		6,800		kHz
Supply Voltage		5		V
Supply Current			20	mA

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Supply Voltage (V <sub>cc</sub> )	+6V
Absolute Tuning Voltage (V <sub>tune</sub> )	+6V

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

