

Engineering Development Model

Voltage Controlled Oscillator

ROS-EDR4914/3

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	45		49	MHz
Tuning Voltage	0.5		5	V
Power Output		0		dBm
Phase Noise				
at 1 kHz offset		-87		dBc/Hz
at 10 KHz offset		-110		dBc/Hz
at 100 KHz offset		-129		dBc/Hz
at 1000 kHz offset		-141		dBc/Hz
Pulling at 12 dBm PK-PK all phases		0.1		MHz
Pushing at Vcc=5V±0.25V		0.1		MHz/V
Tuning Sensitivity		0.8 - 3.8		MHz/V
Harmonic Suppression		-22	-11	dBc
3 dB Modulation Bandwidth		0.5		kHz
Supply Voltage		5.25		V
Supply Current			25	mA

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Supply Voltage (Vcc)	+7.25V
Absolute Tuning Voltage (Vtune)	+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