

Engineering Development Model

Voltage Controlled Oscillator

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 : C145

ELECTRICAL SPECIFICATIONS 50Ω				
Parameter	Min.	Typ.	Max.	Units
Frequency	7		14	MHz
Tuning Voltage		1 - 11.5		V
Power Output		+7.0		dBm
Phase Noise				
at 1 kHz offset		-97		dBc/Hz
at 10 KHz offset		-116		dBc/Hz
at 100 KHz offset		-133		dBc/Hz
at 1000 kHz offset		-144		dBc/Hz
Pulling at 12 dBm PK-PK all phases		0.08		MHz
Pushing at Vcc ± 5%		0.1		MHz/V
Tuning Sensitivity		.5 - 1.5		MHz/V
Harmonic Suppression		-20	-13	dBc
3 dB Modulation Bandwidth		1000		kHz
Supply Voltage		12		V
Supply Current			16	mA

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Supply Voltage (Vcc)	+14V
Absolute Tuning Voltage (Vtune)	+13.5V

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