

Engineering Development Model

Voltage Controlled Oscillator

JTOS-EDR4223

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 : BK377

ELECTRICAL SPECIFICATIONS 50Ω				
Parameter	Min.	Typ.	Max.	Units
Frequency	270		490	MHz
Tuning Voltage	1		16	V
Power Output		+8.5		dBm
Phase Noise				
at 1 kHz offset		-80		dBc/Hz
at 10 KHz offset		-102		dBc/Hz
at 100 KHz offset		-121		dBc/Hz
at 1000 kHz offset		-144		dBc/Hz
Pulling at 12 dBm PK-PK all phases		0.8		MHz
Pushing at Vcc=5V±0.25V		0.4		MHz/V
Tuning Sensitivity		11 - 25		MHz/V
Harmonic Suppression		-25	-18	dBc
3 dB Modulation Bandwidth		100		kHz
Supply Voltage		12		V
Supply Current			18	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)	+18V

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