

Engineering Development Model

Frequency Synthesizer

KSN-EDR11124

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 : DK1042

ELECTRICAL SPECIFICATIONS 50Ω, over -30°C to +85°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	1025		2095	MHz
Step size		100		kHz
Settling Time	Within ±1kHz	0.19		msec
Output Power	-16	-13	-9	dBm
Phase Noise				
at 100 Hz offset		-85		dBc/Hz
at 1 kHz offset		-92		dBc/Hz
at 10 KHz offset		-95		dBc/Hz
at 100 KHz offset		-113		dBc/Hz
at 1000 kHz offset		-139		dBc/Hz
Integrated SSB Phase Noise		-48		dBc
Reference Spurious Suppression		-92		dBc
Comparison Spurious Suppression		-105		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-12		dBc
Supply voltage	VCO & PLL	3.3		V
Supply current	VCO & PLL	100	117	V
Reference In (External)	Frequency	10		MHz
	Amplitude	1		Vp-p
	Impedance	100		kΩ
	Ph. N @ 1kHz	-145		dBc/Hz
Input Logic Levels	Logic high	1.5		V
	Logic Low		0.6	V
Digital Lock Detect	Locked	2.9	3.3	V
	Unlocked		0.4	V
Frequency Synthesizer PLL	ADF4350			

ABSOLUTE MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Supply Voltage	4.3V
Reference Frequency voltage	3.9Vp-p
Data, Clock & LE levels	3.3V

PIN CONNECTIONS			
RF OUT	7	CLOCK	10
VCC	1,5	DATA	11
REF IN	3	LATCH ENABLE	12
LOCK DETECT	9	GROUND	2,4,6,8,13,14

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCStore/terms.jsp



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