

Engineering Development Model

Frequency Synthesizer

KSN-EDR10920SA

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 -45°C to +80°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	2300 2475		2300 2475	MHz
Step size		5000		kHz
Settling Time Within ±1kHz		188		μsec
Output Power	+2	+6	+10	dBm
Phase Noise				
at 100 Hz offset		-74		dBc/Hz
at 1 kHz offset		-91		dBc/Hz
at 10 KHz offset		-96		dBc/Hz
at 100 KHz offset		-108	-102	dBc/Hz
at 1000 kHz offset		-136	-130	dBc/Hz
Integrated SSB Phase Noise		-44		dBc
Reference Spurious Suppression		-77		dBc
Comparison Spurious Suppression		-106		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-17		dBc
Supply voltage VCO & PLL		3.3		V
Supply current VCO & PLL		101	110	V
Reference In (External)				
Frequency		20		MHz
Amplitude		1		Vp-p
Impedance		100		kΩ
Ph. N @ 1kHz		-145		dBc/Hz
Input Logic Levels	Logic high Logic Low	1.5		V
Digital Lock Detect	Locked Unlocked	2.9	0.6 3.3 0.4	V
Frequency Synthesizer PLL	ADF4350			

ABSOLUTE MAXIMUM RATINGS	
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
VCO Supply Voltage	4.3V
PLL Supply Voltage	4.3V
Reference Frequency voltage	3.3Vp-p
Data, Clock & LE levels	3.6V

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

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

