

Engineering Development Model

Frequency Synthesizer

KSN-EDR7338

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 +85°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	900		960	MHz
Step size		100		kHz
Settling Time Within ±1kHz		1.5		msec
Output Power	0	+4	+8	dBm
Phase Noise				
at 1 kHz offset		-78		dBc/Hz
at 10 KHz offset		-104		dBc/Hz
at 100 KHz offset		-127		dBc/Hz
at 1000 kHz offset		-150		dBc/Hz
Reference Spurious Suppression		-103		dBc
Comparison Spurious Suppression		-120		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-21		dBc
Supply voltage		5		V
VCO		5		V
Supply current		18	26	V
VCO		8	16	V
Reference In (External)				
Frequency		8		MHz
Amplitude		1		Vp-p
Impedance		100		kΩ
Ph. N @ 1kHz		-145		dBc/Hz
Input Logic		4	5	V
Levels			1	V
Digital Lock		4.6	5	V
Detect			0.4	V
Frequency Synthesizer PLL		ADF4118		

ABSOLUTE MAXIMUM RATINGS	
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
VCO Supply Voltage	6V
PLL Supply Voltage	6V
Reference Frequency voltage	5.8Vp-p
Data, Clock & LE levels	5.3V

Power On sequence: Vcc VCO followed by Vcc PLL

Power Off sequence: Vcc PLL followed by Vcc VCO

PIN CONNECTIONS			
RF OUT	7	CLOCK	10
VCC VCO	5	DATA	11
VCC PLL	1	LATCH ENABLE	12
REF IN	3	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

