

Engineering Development Model

Frequency Synthesizer

ZSN-EDR10920/1

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.



CASE STYLE : KF1336

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ELECTRICAL SPECIFICATIONS 50Ω, over -40°C to +75°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	4600 4950		4600 4950	MHz
Step size		5000		kHz
Settling Time Within ±1kHz		40		μsec
Output Power	-8	-4	+1	dBm
Phase Noise				
at 100 Hz offset		-75		dBc/Hz
at 1 kHz offset		-85		dBc/Hz
at 10 KHz offset		-89	-83	dBc/Hz
at 100 KHz offset		-102	-96	dBc/Hz
at 1000 kHz offset		-130	-124	dBc/Hz
Integrated SSB Phase Noise		-41		dBc
Reference Spurious Suppression		-102		dBc
Comparison Spurious Suppression		-74		dBc
0.5 Step size Spurious Suppression		-94		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-64		dBc
Supply voltage VCO & PLL		15		V
Supply current VCO & PLL		212	224	V
Reference In (Internal)				
Frequency		20		MHz
Amplitude		1		Vp-p
Impedance		100		kΩ
Ph. N @ 1kHz		-145		dBc/Hz
Digital Lock Detect	Locked Unlocked	2.93	3.33 0.4	V
Frequency Synthesizer PLL	Self-programmed (internal microcontroller)			

ABSOLUTE MAXIMUM RATINGS	
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
Supply Voltage	16V

D-Sub15(Male) Pin connections				Other Connections	
VCC	1	LOCK DETECT	6	RF OUT	SMA (Female)
ON / OFF	2	GROUND	9,14		
FREQ.SELECT	3				
NOT CONNECTED	4,5,7,8,10 - 13,15				

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

