

Engineering Development Model

Frequency Synthesizer

ZSN-EDR10932/1

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 : KG1714

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ELECTRICAL SPECIFICATIONS 50Ω, over -40°C to +70°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	1312.5		1312.5	MHz
Step size		31250		kHz
Settling Time Within ±1kHz		2		msec
Output Power	+7	+11	+14	dBm
Phase Noise				
at 100 Hz offset		-95		dBc/Hz
at 1 kHz offset		-102	-96	dBc/Hz
at 10 KHz offset		-110	-104	dBc/Hz
at 100 KHz offset		-120	-114	dBc/Hz
at 1000 kHz offset		-148	-142	dBc/Hz
Integrated SSB Phase Noise		-58		dBc
Comparison Spurious Suppression		-31		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-72	-65	dBc
Supply voltage VCO & PLL		5		V
Supply current VCO & PLL		143	152	V
Reference In (External)				
Frequency		156.25		MHz
Amplitude		1		Vp-p
Impedance		100		kΩ
Ph. N @ 1kHz		-145		dBc/Hz
Digital Lock Detect	Locked	2.9	3.3	V
	Unlocked		0.4	
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	6V
Reference Frequency voltage	3.6Vp-p

CONNECTIONS	
RF OUT	SMA (Female)
REF IN	SMA (Female)
VCC	Turret Terminal
LOCK DETECT	Turret Terminal

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/MCULStore/terms.jsp