

Engineering Development Model

Frequency Synthesizer

ZSN-EDR10802/1

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 -15°C to +75°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	850		850	MHz
Step size		10000		kHz
Settling Time Within ±1kHz		205		μsec
Output Power	+13	+17	+20	dBm
Phase Noise	at 100 Hz offset	-99		dBc/Hz
	at 1 kHz offset	-108	-102	dBc/Hz
	at 10 KHz offset	-106	-100	dBc/Hz
	at 100 KHz offset	-126	-121	dBc/Hz
	at 1000 kHz offset	-155	-150	dBc/Hz
Integrated SSB Phase Noise		-60		dBc
Ref & Comp Spurious Suppression		-94		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-61	-55	dBc
Supply voltage	VCO & PLL	12		V
Supply current	VCO & PLL	9	17	V
Reference In (External)	Frequency	10		MHz
	Amplitude	1		Vp-p
	Impedance	100		kΩ
	Ph. N @ 1kHz	-145		dBc/Hz
Digital Lock Detect	Locked	11.6	12	V
	Unlocked		0.4	
Frequency Synthesizer PLL		Self-programmed (internal microcontroller)		

ABSOLUTE MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
VCO Supply Voltage	13V
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/MCStore/terms.jsp

