

Engineering Development Model

Frequency Synthesizer

ZSN-EDR10978

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	1625		1625	MHz
Step size		15625		kHz
Settling Time Within ±1kHz		2.5		msec
Output Power	+7	+11	+15	dBm
Phase Noise				
at 100 Hz offset		-91		dBc/Hz
at 1 kHz offset		-99	-94	dBc/Hz
at 10 KHz offset		-106	-100	dBc/Hz
at 100 KHz offset		-116	-111	dBc/Hz
at 1000 kHz offset		-146	-141	dBc/Hz
Integrated SSB Phase Noise		-56		dBc
Reference Spurious Suppression		-94		dBc
Comparison Spurious Suppression		-36		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-72	-63	dBc
Supply voltage VCO & PLL		5		V
Supply current VCO & PLL		130	142	V
Reference In (External)	Frequency	156.25		MHz
	Amplitude	1		Vp-p
	Impedance	100		kΩ
	Ph. N @ 1kHz	-145		dBc/Hz
Digital Lock Locked	2.9		3.3	V
Detect 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-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MC3Store/terms.jsp