

Engineering Development Model

Frequency Synthesizer

ZSN-EDR11277

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 : KH1331

ELECTRICAL SPECIFICATIONS 50Ω, over -15°C to +75°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	1380		1480	MHz
Step size		100		kHz
Settling Time Within ±1kHz		9		msec
Output Power	+7	+11	+15	dBm
Phase Noise				
at 100 Hz offset		-89		dBc/Hz
at 1 kHz offset		-90		dBc/Hz
at 10 KHz offset		-97		dBc/Hz
at 100 KHz offset		-90	-119	dBc/Hz
at 1000 kHz offset		-145	-139	dBc/Hz
Integrated SSB Phase Noise		-49		dBc
Ref & Comp Spurious Suppression		-82		dBc
0.5 Step size Spurious Suppression		-91		dBc
Non-Harm. Spurious Suppression		-90		dBc
Harmonic Suppression		-31		dBc
Supply voltage VCO & PLL		12		V
Supply current VCO & PLL		13	21	V
Reference In (External)				
Frequency		10		MHz
Amplitude		1		Vp-p
Impedance		100		kΩ
Ph. N @ 1kHz		-145		dBc/Hz
Input Logic Levels	Logic high	1.4	3.33	V
Logic Low			0.6	
Digital Lock Detect	Locked	1.4	3.33	V
Unlocked			0.4	
Frequency Synthesizer PLL	ADF4153			

ABSOLUTE MAXIMUM RATINGS	
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
Supply Voltage	13V
Reference Frequency voltage	3.6Vp-p
Data, Clock & LE levels	3.63V

D-Sub15(Male) Pin connections				Other Connections	
VCC PLL	6	CLOCK	2	RF OUT	SMA (Female)
VCC VCO	8	DATA	3	REF IN	SMA (Female)
LOCK DETECT	1	LATCH ENABLE	4		
NOT CONNECTED	9-15	GROUND	5,7		

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



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