Engineering Development Model

Frequency Synthesizer

KSN-EDR10970

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: DK1042

ELECTRICAL SPECIFICATIONS 50Ω, over -40°C to +85°C						
Parameter		Min.	Тур.	Max.	Units	
Frequency		490	•	490	MHz	
Step size			7000		kHz	
Settling Time Wit	hin ±1kHz		540_		usec	
Output Power		-4	0	+3	dBm	
Phase Noise	at 100 Hz offset at 1 kHz offset		-101 -106	-100	dBc/Hz dBc/Hz	
	at 10 KHz offset at 100 KHz offset at 1000 kHz offset		-108 -131 -156	-102 -125 -151	dBc/Hz dBc/Hz dBc/Hz	
Integrated SSB Phase Noise			-62		dBc	
Reference Spurious Suppression			-80	· CO	dBc	
Comparison Spurious Suppression			-26		dBc	
Non-Harm. Spurious Suppression			-90		dBc	
Harmonic Suppression			-35		dBc	
Supply voltage	VCO PLL		5 5		V V	
Supply current	VCO PLL		40 12	48 20	V V	
Reference In	Frequency Amplitude	79 8	49		MHz Vp-p	
(External)	Impedance Ph. N @ 1kHz		100 -145		kΩ dBc/Hz	
Digital Lock Detect	Locked Unlocked	4.6		5 0.4	V	
Frequency Synthesizer PLL Self-programme			Self-programmed (intern	al microcontroller)		

ABSOLUTE MAXIMUM RATINGS					
Operating Temperature	-45°C to 85°C				
Storage Temperature	√ -55°C to 100°C				
VCO Supply Voltage	6V				
PLL Supply Voltage	6V				
Reference Frequency voltage	5.8Vp-p				
Data, Clock & LE levels	5.3V				

Power On sequence: Vcc VCO followed by Vcc PLL Power Off sequence: Vcc PLL followed by Vcc VCO

PIN CONNECTIONS						
RF OUT	7	N.C	10,11,12			
VCC VCO	5	GROUND	2,4,6,8,13,14			
VCC PLL	1					
REF IN	3					
LOCK DETECT	9					

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A. Performance and quality attributes and conditions not express
 B. Electrical specifications and performance data contained in thi
 C. The parts covered by this specification document are subject
 to the rights and benefits contained therein. For a full statement of the