Frequency Synthesizer

KSN-EDR10140SA1

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 -45°C to +85°C						
Parameter	Min.	Тур.	Max.	Units		
Frequency	387		387	MHz		
Step size		1000		kHz		
Settling Time Within ±1kHz		200		usec		
Output Power	0	+4	+8	dBm		
Phase Noise at 100 Hz	offset	-99		dBc/Hz		
at 1 kHz		-105		dBc/Hz		
at 10 KHz	*	-104		dBc/Hz		
at 100 KHz		-120	-115	dBc/Hz		
at 1000 kHz	offset	-155	-150	dBc/Hz		
Integrated SSB Phase Noise	- A	-56		dBc		
Reference Spurious Suppression		-84		dBc		
Comparison Spurious Suppression	-	-36	>	dBc		
Non-Harm. Spurious Suppression		-90		dBc		
Harmonic Suppression		-32	-26	dBc		
Supply voltage VCO PLL	4 0	5 5		V V		
Supply current VCO PLL		34 10	42 18	V V		
Frequency Reference In Amplitude	70 6	10 1		MHz Vp-p		
(External) Impedance		100		kΩ		
Ph. N @ 1kHz		-145		dBc/Hz		
Input Logic Logic high Levels Logic Low	10			V		
Digital Lock Locked Detect Unlocked	2.7		3.1 0.4	V		
Frequency Synthesizer PLL ADF4002						

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	3.6Vp-p			
Data, Clock & LE levels	3.4V			

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

PIN CONNECTIONS					
RF OUT	7	CLOCK	10		
VCC VCO	5	DATA	11		
VCC PLL	1	LATCH ENABLE	12		
REF IN	3	GROUND	2,4,6,8,13,14		
LOCK DETECT	9				