Engineering Development Model

Frequency Synthesizer

KSN-EDR9941MP

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	1779.2		1830.4	MHz			
Step size	. 0	1280		kHz			
Settling Time Within ±50Hz		0.6		msec			
Output Power	-2	+1	+5	₫₿m			
Phase Noise							
at 100 Hz offset		-85		dBc/Hz			
at 1 kHz offset		-89	-84	dBc/Hz			
at 10 KHz offset		-92	-86	dBc/Hz			
at 100 KHz offset		-89	-120	dBc/Hz			
at 1000 kHz offset		-148	-143	dBc/Hz			
Integrated SSB Phase Noise		-48		dBc			
Comparison Spurious Suppression		-109		dBc			
Non-Harm. Spurious Suppression		-90		dBc			
Harmonic Suppression		-35	-28	dBc			
Supply voltage VCO	A C	5 5		V V			
Supply current VCO PLL		24 16	32 24	mA mA			
Frequency		19.2		MHz			
Reference In Amplitude	40	1		Vp-p			
(External) Impedance		100		kΩ			
Ph.N@1kHz		-145		dBc/Hz			
Input Logic Logic high	4		5	V			
Levels Logic Low			1	V			
Digital Lock Locked	4.6		5	V			
Detect Unlocked			0.4	v			
Frequency Synthesizer PLL		ADF411	13				

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	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				