

Frequency Synthesizer

KSN-EDR11094

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT			HARMONICS						VCO CURRENT			PLL CURRENT		
	(dBm)			dBc						(mA)			(mA)		
				F2			F3								
	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C
910	8.03	7.39	6.75	-41.41	-45.17	-48.57	-44.64	-43.74	-44.23	40.38	43.11	44.62	9.30	9.97	11.09

FREQ. (MHz)	PHASE NOISE (dBc/Hz)														
	@ OFFSETS														
	-40°C					+25°C					+85°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
910	-97.81	-108.64	-109.84	-119.84	-153.88	-94.64	-109.08	-109.80	-119.21	-152.45	-94.95	-109.90	-109.91	-118.13	-151.17

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 910MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 910MHz± (n*Fcomparison) (dBc) NOTE 2		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
n						
-5	-86.70	-86.50	-89.69	-86.70	-86.50	-89.69
-4	-85.42	-86.76	-90.01	-85.42	-86.76	-90.01
-3	-85.99	-85.68	-89.38	-85.99	-85.68	-89.38
-2	-83.59	-84.49	-89.68	-83.59	-84.49	-89.68
-1	-83.07	-81.88	-89.95	-83.07	-81.88	-89.95
0 ^{note 3}	-	-	-	-	-	-
+1	-93.71	-92.91	-89.24	-93.71	-92.91	-89.24
+2	-102.23	-103.10	-88.71	-102.23	-103.10	-88.71
+3	-98.92	-98.75	-88.95	-98.92	-98.75	-88.95
+4	-99.22	-94.53	-87.54	-99.22	-94.53	-87.54
+5	-95.97	-92.90	-88.71	-95.97	-92.90	-88.71

Note 1: Reference frequency 20 MHz

Note 2: Comparison frequency 10 MHz

Note 3: All spurs are referenced to carrier signal (n=0).

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.
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