

Frequency Synthesizer

KSN-EDR10139

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURRENT (mA)		
				F2			F3								
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
1090	7.40	7.13	6.66	-24.92	-28.79	-31.13	-24.92	-28.79	-31.13	53.62	55.93	57.22	15.50	17.28	18.96

FREQ. (MHz)	PHASE NOISE (dBc/Hz)														
	@ OFFSETS														
	-45°C					+25°C					+85°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
1090	-77.12	-96.66	-103.96	-123.46	-155.90	-81.60	-99.20	-103.95	-124.30	-155.96	-78.49	-98.64	-102.73	-123.22	-154.35

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 1090 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1090 MHz± (n*Fcomparison) (dBc) NOTE 2		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
	n					
-5	-97.54	-94.61	-105.25	-97.86	-94.73	-101.01
-4	-98.03	-96.24	-109.73	-113.68	-102.29	-104.06
-3	-102.68	-97.54	-105.96	-97.18	-98.35	-109.86
-2	-113.68	-102.29	-104.06	-101.37	-99.74	-104.73
-1	-101.37	-99.74	-104.73	-102.19	-96.1	-99.25
0 note 3	-	-	-	-	-	-
+1	-107.35	-102.9	-101.37	-93.36	-96.92	-99.74
+2	-105.80	-99.02	-100.81	-107.35	-102.9	-101.37
+3	-99.24	-99.22	-99.12	-94.30	-94.55	-105.85
+4	-101.38	-99.13	-104.66	-105.80	-99.02	-100.81
+5	-93.88	-91.51	-94.83	-100.70	-101.29	-113.34

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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