

Frequency Synthesizer

KSN-EDR10966

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT			HARMONICS						VCO CURRENT			PLL CURRENT		
	(dBm)			dBc						(mA)			(mA)		
				F2			F3								
	-55 °C	+25 °C	+85 °C	-55 °C	+25 °C	+85 °C	-55 °C	+25 °C	+85 °C	-55 °C	+25 °C	+85 °C	-55 °C	+25 °C	+85 °C
297.1	-1.97	-2.15	-2.84	-29.35	-32.19	-35.84	-36.66	-34.92	-32.51	33.42	35.70	36.66	8.98	11.28	13.25

FREQ.	PHASE NOISE (dBc/Hz)														
(MHz)	@ OFFSETS														
	-55°C					+25°C					+85°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
297.1	-91.62	-92.36	-108.54	-134.19	-145.48	-88.76	-93.30	-109.22	-134.71	-152.26	-94.94	-92.99	-107.59	-132.89	-149.10

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 297.1MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 297.1MHz± (n*Fcomparison) (dBc) NOTE 2		
	-55 °C	+25 °C	+85 °C	-55 °C	+25 °C	+85 °C
n						
-5	-	-	-	-99.10	-109.32	-104.38
-4	-	-	-	-96.24	-110.11	-110.11
-3	-	-	-	-95.94	-107.27	-107.27
-2	-109.51	-105.52	-104.78	-91.57	-99.40	-96.95
-1	-94.70	-94.55	-94.44	-85.12	-87.20	-86.19
0 ^{note 3}	-	-	-	-	-	-
+1	-93.67	-93.81	-93.53	-86.97	-86.64	-86.99
+2	-95.33	-100.08	-102.28	-96.16	-97.86	-94.94
+3	-114.67	-110.70	-103.76	-105.43	-102.34	-98.57
+4	-97.87	-97.84	-109.15	-103.36	-101.63	-100.84
+5	-104.40	-105.12	-108.56	-102.32	-101.94	-100.39

Note 1: Reference frequency 100 MHz

Note 2: Comparison frequency 0.1 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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