

Frequency Synthesizer

RSN-EDR10612

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURRENT (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
1380	6.52	7.09	7.03	-36.24	-33.34	-32.77	-55.63	-58.74	-61.87	46.10	47.02	47.56	18.97	20.93	22.75

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	1MHz
1380	-93.39	-99.79	-103.14	-131.79	-153.40	-97.90	-104.54	-104.99	-131.97	-153.36	-97.60	-106.93	-105.98	-131.35

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE & COMPARISON SPURIOUS @Fcarrier 1380 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1380 MHz± (n*Fcomparison) (dBc) NOTE 2		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
n						
-5	-	-	-	-89.22	-101.01	-96.68
-4	-	-	-	-89.57	-103.55	-94.97
-3	-	-	-	-84.74	-85.56	-82.29
-2	-	-	-	-92.64	-93.39	-89.28
-1	-84.66	-76.15	-77.03	-92.94	-97.01	-91.99
0 note 3	-	-	-	-	-	-
+1	-84.23	-91.79	-93.03	-96.83	-93.95	-93.7
+2	-104.89	-110.3	-116.48	-98.09	-94.05	-94.51
+3	-94.36	-96.93	-96.77	-86.57	-87.73	-83.66
+4	-112.12	-104.59	-112.14	-98.80	-95.48	-90.38
+5	-120.14	-116.4	-119.29	-96.58	-93.24	-91.06

Note 1: Reference frequency 960 MHz.

Note 2: Comparison frequency 20 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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