

Frequency Synthesizer

KSN-EDR11097

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
2457.6	4.94	4.32	3.15	-34.40	-38.90	-46.31	-34.66	-36.73	-40.17	45.64	46.47	47.84	9.86	10.80	11.82

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
2457.6	-90.49	-92.07	-112.38	-135.91	-155.81	-88.57	-91.22	-111.66	-134.36	-153.42	-88.38	-91.05	-109.08	-131.92

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 2457.6MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 2457.6MHz± (n*Fcomparison) (dBc) NOTE 2		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
n						
-5	-106.75	-101.06	-99.54	-99.86	-103.29	-106.07
-4	-106.61	-112.12	-107.1	-100.51	-103.43	-107.29
-3	-102.50	-99.40	-105.77	-102.40	-101.29	-106.15
-2	-101.22	-107.10	-105.5	-104.43	-107.75	-105.46
-1	-102.45	-101.00	-106.16	-106.96	-103.61	-91.56
0 ^{note 3}	-	-	-	-	-	-
+1	-101.07	-98.64	-92.76	-96.65	-93.17	-87.38
+2	-105.77	-96.71	-94.87	-100.60	-96.46	-90.75
+3	-102.04	-99.56	-98.04	-101.25	-98.57	-92.76
+4	-103.92	-98.25	-96.43	-101.04	-97.82	-93.77
+5	-107.37	-103.08	-100.98	-101.75	-98.21	-94.34

Note 1: Reference frequency 10.24 MHz

Note 2: Comparison frequency 30.72 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.
 C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCULStoreTerms.jsp

