

Frequency Synthesizer

KSN-EDR10082

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
920.0	1.18	1.17	0.73	-10.74	-12.82	-16.61	-17.91	-21.22	-26.60	30.69	32.01	32.88	16.43	18.75	21.38
930.0	1.17	1.15	0.66	-10.62	-12.74	-16.62	-18.43	-21.94	-27.51	30.70	32.02	32.88	16.47	18.87	21.52
976.0	1.00	0.97	0.23	-10.21	-12.81	-17.68	-19.39	-23.87	-31.01	30.71	32.02	32.87	16.79	19.27	21.89
1032.0	0.89	0.83	-0.09	-10.45	-13.47	-18.99	-21.31	-26.43	-34.44	30.72	32.03	32.87	16.75	19.24	21.84
1088.0	0.75	0.57	-0.48	-10.63	-13.90	-19.64	-24.10	-30.04	-38.30	30.74	32.04	32.88	16.75	19.26	21.86
1144.0	0.61	0.37	-0.72	-10.82	-14.08	-19.49	-27.18	-34.27	-43.13	30.77	32.06	32.89	16.80	19.32	21.91
1200.0	0.46	0.16	-0.87	-11.50	-14.61	-19.65	-31.08	-35.84	-45.18	30.81	32.08	32.90	16.47	18.95	21.55
1256.0	0.33	-0.01	-0.94	-12.19	-14.60	-18.75	-26.73	-28.75	-33.48	30.85	32.12	32.92	16.79	19.31	21.89
1312.0	0.25	-0.39	-1.41	-10.61	-13.31	-17.72	-28.56	-33.71	-39.38	30.85	32.13	32.94	16.75	19.27	21.84
1368.0	0.02	-0.56	-1.45	-10.77	-13.48	-17.55	-34.71	-39.92	-42.89	30.89	32.17	32.97	16.75	19.07	21.85
1424.0	-0.30	-0.93	-1.73	-11.13	-13.59	-17.16	-37.92	-38.62	-39.39	30.92	32.19	32.99	16.80	19.31	21.91
1470.0	-0.44	-1.01	-1.77	-11.60	-13.97	-17.18	-37.02	-35.83	-36.83	30.94	32.22	33.02	16.47	18.97	21.55
1480.0	-0.51	-1.09	-1.82	-11.73	-14.09	-17.25	-36.78	-35.88	-36.95	30.95	32.22	33.02	16.48	18.98	21.56

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
920.0	-86.32	-90.47	-90.60	-88.36	-107.09	-85.02	-90.97	-90.74	-88.35	-107.14	-86.82	-90.69	-91.86	-88.97	-106.84
930.0	-84.69	-90.20	-90.60	-87.64	-107.51	-87.51	-90.44	-90.98	-87.73	-107.47	-86.52	-91.56	-91.50	-88.47	-107.16
976.0	-86.53	-88.84	-90.53	-88.88	-108.60	-86.89	-89.35	-91.03	-89.42	-108.19	-85.80	-89.77	-91.45	-89.65	-107.70
1032.0	-83.78	-88.59	-90.18	-89.41	-108.99	-85.81	-89.83	-90.66	-89.44	-108.51	-86.09	-90.86	-91.55	-89.79	-108.03
1088.0	-84.77	-89.33	-88.74	-87.67	-108.70	-84.68	-90.85	-89.62	-88.23	-108.41	-86.07	-91.19	-91.03	-89.21	-107.87
1144.0	-83.40	-87.68	-88.82	-87.79	-108.27	-85.49	-87.72	-89.60	-88.21	-107.84	-84.95	-89.92	-90.90	-89.11	-107.46
1200.0	-83.87	-89.48	-88.90	-85.61	-107.68	-85.56	-90.55	-90.43	-86.93	-107.37	-84.33	-93.63	-91.43	-89.28	-106.91
1256.0	-81.88	-86.83	-88.17	-87.31	-107.98	-84.48	-87.39	-89.43	-87.89	-107.56	-84.40	-89.70	-90.46	-88.63	-106.89
1312.0	-81.83	-86.27	-88.43	-86.25	-106.96	-83.96	-87.79	-89.72	-87.31	-106.77	-85.84	-89.64	-91.25	-88.70	-106.58
1368.0	-81.10	-87.05	-86.84	-84.95	-107.11	-83.27	-89.43	-88.64	-86.23	-106.89	-85.97	-91.67	-90.36	-87.59	-106.71
1424.0	-84.86	-86.93	-87.75	-86.13	-107.24	-83.27	-87.58	-89.18	-86.78	-106.95	-83.62	-89.63	-90.43	-88.14	-106.73
1470.0	-83.51	-88.05	-88.43	-85.02	-107.40	-85.82	-89.77	-89.22	-85.18	-107.05	-83.42	-90.58	-90.78	-87.12	-106.93
1480.0	-82.73	-88.56	-88.64	-84.41	-107.36	-82.23	-89.33	-89.32	-85.92	-107.20	-83.69	-89.75	-90.35	-86.57	-107.02

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/MCStore/terms.jsp



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Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON & REFERENCE SPURIOUS @Fcarrier 930 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON & REFERENCE SPURIOUS @Fcarrier 1200 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON & REFERENCE SPURIOUS @Fcarrier 1470 MHz± (n*Fcomparison) (dBc) NOTE 1		
	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C
-5	-100.81	-106.43	-99.43	-107.36	-111.60	-109.94	-114.53	-104.46	-110.68
-4	-97.63	-101.55	-98.77	-107.86	-112.47	-108.29	-114.39	-111.06	-110.43
-3	-93.73	-96.87	-99.47	-106.50	-106.51	-107.98	-106.17	-110.46	-109.14
-2	-88.61	-93.08	-100.27	-102.79	-101.79	-115.00	-109.53	-105.30	-113.04
-1	-81.94	-87.56	-101.90	-99.93	-96.29	-104.82	-103.69	-96.29	-106.92
+1	-81.74	-87.22	-104.06	-100.12	-97.21	-98.34	-105.82	-98.38	-108.50
+2	-88.20	-92.88	-102.75	-100.02	-101.47	-102.19	-113.44	-109.70	-103.75
+3	-92.17	-97.54	-103.89	-101.20	-101.90	-108.04	-114.21	-108.76	-104.78
+4	-96.05	-98.48	-102.47	-100.83	-102.25	-114.26	-112.28	-113.56	-108.60
+5	-105.33	-100.82	-98.34	-101.20	-109.23	-110.94	-113.19	-109.45	-106.31

Note 1: Comparison & reference frequency 10 kHz

Note 2: All spurs are referenced to carrier signal (n=0).

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