

Frequency Synthesizer

SSN-EDR11277/SA

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS						VCO CURRENT (mA)			PLL CURRENT (mA)		
				(dBc)											
	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C
1360	1.09	1.38	1.43	-23.68	-25.05	-26.55	-35.98	-39.37	-38.68	47.46	48.32	49.09	11.98	13.71	15.51
1376	0.88	1.18	1.25	-26.99	-28.45	-29.10	-39.01	-42.66	-41.66	47.35	48.23	49.02	13.01	14.80	16.64
1380	0.85	1.16	1.23	-27.66	-29.26	-29.91	-38.86	-42.22	-41.42	47.33	48.21	49.01	11.98	13.75	15.57
1392	0.85	1.15	1.20	-26.34	-27.99	-30.03	-39.65	-43.04	-40.93	47.27	48.16	48.98	12.90	14.70	16.56
1408	0.83	1.15	1.19	-30.53	-31.66	-31.28	-38.98	-42.72	-41.30	47.19	48.10	48.92	12.94	14.75	16.61
1424	0.81	1.11	1.13	-34.39	-35.90	-35.07	-35.72	-41.10	-41.59	47.11	48.03	48.88	12.99	14.81	16.68
1440	0.65	0.95	0.95	-35.88	-36.23	-34.56	-37.16	-44.91	-41.64	47.05	47.98	48.84	11.97	13.76	15.60
1456	0.45	0.75	0.76	-45.90	-41.87	-36.95	-36.74	-44.57	-40.35	47.00	47.95	48.82	13.00	14.82	16.69
1472	0.30	0.59	0.58	-43.98	-41.33	-37.33	-38.04	-46.68	-40.35	46.98	47.93	48.81	12.89	14.71	16.59
1480	0.27	0.56	0.53	-45.07	-42.81	-37.86	-37.70	-45.15	-39.55	46.97	47.92	48.80	11.97	13.77	15.61
1488	0.27	0.56	0.51	-46.47	-45.11	-39.10	-38.43	-43.85	-39.45	46.95	47.92	48.80	12.93	14.76	16.63
1504	0.36	0.63	0.53	-38.65	-40.78	-38.72	-37.49	-40.03	-38.18	46.91	47.88	48.78	12.99	14.82	16.70
1520	0.27	0.54	0.44	-35.39	-39.35	-38.69	-36.34	-35.60	-37.71	46.89	47.86	48.77	11.97	13.77	15.62

FREQ. (MHz)	PHASE NOISE (dBc/Hz)													
	@ OFFSETS													
	-15 °C					+25°C					+75 °C			
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	1MHz
1360	-86.41	-93.99	-100.37	-127.27	-147.92	-87.38	-94.78	-99.77	-126.25	-146.53	-90.87	-95.12	-98.87	-124.09
1376	-88.06	-94.93	-101.02	-127.46	-148.13	-88.50	-93.41	-100.39	-125.95	-146.40	-87.58	-93.23	-99.10	-124.17
1380	-88.75	-93.96	-100.90	-127.49	-147.92	-89.21	-91.11	-99.37	-125.85	-146.44	-89.56	-92.43	-99.00	-123.93
1392	-90.69	-94.40	-101.03	-127.43	-147.91	-87.38	-93.09	-100.50	-125.94	-146.33	-94.27	-93.09	-99.84	-123.80
1408	-87.39	-92.83	-100.12	-127.41	-147.80	-89.88	-92.04	-99.92	-125.93	-146.08	-89.96	-91.87	-98.57	-123.50
1424	-88.73	-93.47	-100.51	-127.13	-147.70	-89.36	-92.91	-100.40	-125.54	-145.90	-90.11	-92.70	-98.59	-123.24
1440	-88.20	-92.68	-100.02	-127.13	-147.78	-87.78	-93.23	-99.80	-125.59	-145.80	-87.91	-91.21	-98.07	-123.01
1456	-88.40	-93.39	-99.78	-126.84	-147.32	-88.79	-93.00	-99.82	-125.20	-145.43	-90.23	-92.22	-97.69	-123.02
1472	-87.72	-91.88	-100.14	-126.60	-145.91	-88.23	-90.99	-99.68	-123.24	-145.24	-88.69	-90.80	-97.86	-122.88
1480	-88.11	-92.83	-99.85	-126.67	-147.06	-90.40	-92.21	-99.47	-125.10	-145.32	-85.71	-89.71	-97.90	-122.66
1488	-87.36	-92.59	-100.04	-126.55	-147.12	-88.51	-92.98	-99.44	-123.94	-145.28	-91.65	-88.56	-98.21	-122.62
1504	-87.81	-93.04	-99.93	-126.21	-146.55	-89.50	-90.58	-98.90	-123.82	-144.96	-87.15	-87.86	-98.03	-122.35
1520	-89.55	-92.29	-99.88	-125.92	-146.44	-90.77	-91.27	-98.71	-124.32	-144.69	-87.27	-89.39	-97.99	-122.21

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/MCULStore/terms.jsp



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Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 1380.1 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1430.1 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1480.1 MHz± (n*Fcomparison) (dBc) NOTE 1		
	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C
-5	-79.39	-78.80	-83.62	-79.21	-79.43	-81.87	-78.75	-80.72	-79.58
-4	-79.48	-78.89	-85.11	-79.63	-78.42	-84.23	-78.18	-79.97	-81.87
-3	-80.48	-80.00	-82.31	-80.75	-78.79	-83.25	-78.50	-80.21	-82.29
-2	-83.44	-83.02	-81.08	-83.40	-80.87	-82.37	-80.89	-81.63	-80.31
-1	-92.84	-89.40	-88.07	-88.81	-85.77	-83.89	-86.55	-87.20	-80.43
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-86.40	-84.88	-77.82	-84.59	-88.99	-76.91	-88.32	-91.18	-76.74
+2	-80.95	-79.45	-75.77	-79.48	-81.98	-76.32	-81.61	-82.04	-75.30
+3	-78.28	-77.17	-80.94	-77.39	-78.92	-80.92	-78.40	-78.76	-79.66
+4	-75.73	-75.12	-85.48	-75.64	-76.35	-87.36	-75.87	-76.47	-90.14
+5	-74.54	-74.34	-75.92	-74.74	-74.79	-76.78	-74.37	-75.04	-77.90

Note 1: Comparison & Reference frequency 10 MHz

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

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