

Frequency Synthesizer

SSN-EDR9582

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS						VCO CURRENT (mA)			PLL CURRENT (mA)		
				(dBc)											
	-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
1533.0	3.36	3.81	4.06	-22.63	-25.68	-28.69	-25.69	-26.32	-27.96	45.64	46.89	48.04	14.87	16.18	18.20
1536.4	3.42	3.85	4.08	-23.46	-26.39	-29.32	-25.59	-25.73	-27.27	45.58	46.85	48.01	14.86	16.22	18.25
1539.8	3.46	3.90	4.12	-24.69	-27.83	-30.78	-25.70	-26.05	-27.21	45.56	46.82	47.98	15.16	16.55	18.61
1542.0	3.48	3.91	4.13	-25.36	-28.75	-31.84	-25.63	-26.47	-27.87	45.53	46.79	47.97	15.22	16.65	18.72
1543.2	3.48	3.91	4.12	-25.57	-29.16	-32.32	-25.57	-26.55	-28.20	45.52	46.78	47.96	15.29	16.71	18.80
1546.6	3.47	3.89	4.10	-25.47	-29.51	-32.99	-25.31	-26.62	-28.81	45.42	46.74	47.93	15.36	16.80	18.89
1550.0	3.48	3.86	4.06	-25.47	-28.96	-32.32	-25.73	-26.85	-28.64	45.34	46.67	47.90	15.35	16.79	18.90
1553.4	3.50	3.88	4.05	-25.58	-28.92	-31.85	-25.88	-27.18	-28.81	45.29	46.61	47.85	15.21	16.65	18.76
1556.8	3.52	3.90	4.06	-25.90	-29.28	-32.24	-25.56	-27.20	-29.11	45.24	46.58	47.81	15.00	16.44	18.54
1557.0	3.52	3.90	4.06	-25.93	-29.33	-32.26	-25.53	-27.15	-29.08	45.23	46.57	47.81	14.99	16.43	18.54
1560.2	3.56	3.91	4.06	-26.53	-29.89	-32.77	-24.56	-26.19	-28.44	45.18	46.53	47.78	14.67	16.09	18.20
1563.6	3.58	3.92	4.05	-27.09	-30.57	-33.39	-24.51	-25.46	-27.55	45.12	46.48	47.75	15.00	16.45	18.57
1567.0	3.58	3.91	4.03	-27.49	-30.64	-33.66	-25.13	-25.84	-27.84	45.07	46.44	47.72	15.18	16.63	18.76

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
1533.0	-88.44	-95.80	-99.52	-128.08	-149.17	-90.84	-97.66	-100.79	-126.97	-147.84	-88.69	-98.83	-100.63	-125.22	-145.88
1536.4	-86.58	-96.42	-99.92	-128.27	-149.59	-89.02	-98.35	-100.77	-126.96	-147.94	-90.64	-99.63	-100.28	-124.29	-145.78
1539.8	-87.33	-94.08	-99.95	-128.36	-149.38	-89.56	-98.22	-100.68	-127.09	-147.81	-91.21	-100.95	-100.14	-125.21	-146.04
1542.0	-87.68	-96.39	-100.33	-128.13	-148.97	-89.83	-98.43	-101.04	-127.17	-148.02	-91.05	-99.24	-100.31	-125.18	-146.17
1543.2	-88.20	-96.02	-99.22	-126.29	-148.24	-90.14	-98.53	-100.66	-127.01	-148.18	-91.00	-99.57	-100.65	-125.31	-145.78
1546.6	-87.67	-97.17	-99.65	-127.92	-148.96	-89.61	-98.19	-100.64	-126.79	-147.40	-89.31	-98.21	-100.55	-125.01	-145.97
1550.0	-85.65	-94.01	-100.48	-128.15	-149.02	-92.19	-97.32	-100.66	-126.59	-147.83	-92.72	-99.75	-99.92	-124.86	-145.67
1553.4	-82.80	-95.79	-100.32	-128.16	-149.58	-88.96	-98.51	-100.60	-126.91	-147.93	-90.94	-98.60	-99.40	-124.73	-145.64
1556.8	-87.05	-95.91	-100.17	-128.03	-148.91	-91.12	-99.05	-100.83	-127.00	-147.36	-90.55	-99.14	-100.36	-124.91	-145.71
1557.0	-89.06	-95.58	-100.10	-128.04	-149.45	-90.04	-100.10	-100.76	-126.98	-147.93	-90.46	-99.35	-99.80	-124.98	-145.67
1560.2	-85.71	-95.80	-99.22	-127.96	-149.36	-91.10	-98.98	-100.46	-126.83	-147.46	-93.30	-98.34	-99.55	-124.87	-145.76
1563.6	-85.46	-94.84	-99.42	-128.01	-149.29	-89.67	-97.56	-100.26	-126.84	-147.69	-91.82	-97.80	-99.57	-124.69	-145.57
1567.0	-86.97	-95.38	-99.78	-128.05	-147.97	-92.94	-96.31	-100.34	-126.89	-147.86	-90.31	-99.63	-100.32	-124.89	-145.51

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



Frequency Synthesizer

SSN-EDR9582

Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 1542 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1549.6 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1557 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	-80.03	-83.20	-82.31	-80.22	-83.79	-82.33	-82.25	-85.41	-83.59
-4	-76.61	-76.22	-78.35	-77.04	-76.66	-79.09	-78.71	-78.41	-80.96
-3	-86.00	-86.17	-84.22	-85.81	-85.23	-83.71	-87.11	-85.34	-84.64
-2	-86.89	-88.98	-91.58	-87.14	-89.18	-91.42	-88.75	-90.63	-91.60
-1	-91.70	-90.26	-91.90	-91.66	-89.90	-91.83	-91.52	-90.93	-91.76
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-95.71	-94.76	-94.16	-97.24	-93.61	-95.61	-98.24	-93.62	-95.55
+2	-97.51	-92.88	-102.28	-96.28	-93.53	-107.30	-94.92	-96.08	-108.17
+3	-89.13	-87.82	-88.02	-89.62	-88.19	-88.14	-89.33	-89.22	-89.77
+4	-92.05	-89.37	-97.38	-89.72	-87.96	-93.43	-89.11	-87.82	-91.81
+5	-79.43	-79.59	-83.16	-78.78	-79.24	-83.14	-79.04	-79.78	-84.08

Note 1: Comparison frequency 26 MHz

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

REFERENCE SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 1542 MHz± (n*Freffence) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 1549.6 MHz± (n*Freffence) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 1557 MHz± (n*Freffence) (dBc) NOTE 3		
	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C
-5	-89.64	-90.64	-89.05	-89.76	-91.12	-89.05	-89.57	-91.38	-89.29
-4	-95.94	-94.08	-91.76	-95.03	-92.27	-90.83	-95.76	-93.63	-90.23
-3	-83.74	-83.77	-89.15	-83.32	-83.59	-88.84	-84.81	-85.24	-92.01
-2	-76.36	-76.25	-78.37	-76.88	-76.68	-79.11	-78.62	-78.43	-80.92
-1	-86.80	-88.98	-91.75	-87.17	-89.32	-91.18	-88.74	-90.48	-91.57
0 ^{note 4}	-	-	-	-	-	-	-	-	-
+1	-97.39	-93.13	-102.96	-96.63	-93.58	-110.41	-95.45	-96.47	-107.98
+2	-92.18	-89.33	-97.68	-89.92	-87.81	-93.35	-88.56	-87.73	-91.89
+3	-85.91	-94.22	-89.78	-85.60	-92.83	-89.32	-86.84	-95.16	-91.44
+4	-94.12	-98.87	-97.12	-93.35	-97.15	-99.02	-93.00	-96.66	-98.22
+5	-89.73	-91.41	-96.87	-89.63	-91.03	-97.86	-90.79	-91.05	-100.64

Note 3: Reference frequency 52 MHz

Note 4: All spurs are referenced to carrier signal (n=0).

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 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

