

Frequency Synthesizer

DSN-EDR11167

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS						A-VCC CURRENT (mA)			D-VCC CURRENT (mA)		
				(dBc)											
	-30 °C	+25°C	+70 °C	F2			F3								
-30 °C				+25°C	+70 °C	-30 °C	+25°C	+70 °C							
1025.0	14.05	14.55	14.56	-22.39	-24.05	-26.39	-45.30	-46.73	-48.33	66.30	70.00	72.33	46.05	46.87	52.98
1070.0	14.09	14.37	14.39	-26.38	-28.00	-30.51	-48.15	-50.26	-52.81	66.24	69.83	71.97	46.16	47.02	53.10
1115.0	13.96	14.21	14.23	-31.54	-33.49	-36.64	-52.27	-55.06	-58.76	66.23	69.59	71.63	46.18	47.07	53.12
1160.0	14.03	14.48	14.48	-37.89	-40.54	-44.49	-57.44	-59.80	-63.60	66.10	69.30	71.26	44.33	44.94	51.05
1205.0	14.06	14.64	14.61	-49.80	-53.54	-61.18	-56.46	-57.17	-59.27	65.79	68.87	70.79	46.05	46.94	53.00
1250.0	14.14	14.33	14.28	-48.32	-51.15	-56.08	-53.17	-54.71	-57.24	65.40	68.45	70.40	46.15	47.06	53.09
1295.0	14.28	14.43	14.24	-44.61	-49.36	-54.21	-51.26	-53.44	-56.58	64.62	67.74	69.89	46.19	47.12	53.14
1340.0	14.30	14.74	14.39	-43.62	-49.08	-50.56	-50.25	-53.12	-54.92	63.94	67.13	69.52	44.33	44.96	51.05
1385.0	14.25	14.43	13.88	-45.79	-52.20	-49.02	-50.66	-49.36	-48.86	63.25	66.73	69.42	46.07	46.98	52.99
1430.0	14.00	13.85	13.30	-45.55	-49.29	-46.42	-50.05	-46.94	-46.72	62.90	66.47	69.23	46.16	47.09	53.10
1475.0	13.65	13.55	12.90	-47.92	-51.87	-46.81	-47.04	-44.79	-45.18	62.44	66.20	69.07	46.21	47.16	53.15

FREQ. (MHz)	PHASE NOISE (dBc/Hz)														
	@ OFFSETS														
	-30 °C					+25°C					+70 °C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
1025.0	-91.74	-97.92	-100.13	-121.66	-145.76	-89.40	-98.32	-99.76	-120.08	-144.26	-93.97	-98.67	-99.05	-119.56	-137.85
1070.0	-89.54	-97.34	-99.03	-122.14	-146.22	-88.12	-98.94	-98.24	-120.64	-144.13	-92.03	-97.68	-97.92	-119.73	-138.78
1115.0	-88.48	-95.78	-97.78	-122.23	-146.22	-92.84	-96.62	-97.01	-120.77	-143.86	-90.50	-96.92	-96.03	-119.88	-139.32
1160.0	-89.54	-96.93	-97.68	-121.88	-145.91	-89.44	-96.94	-98.68	-120.54	-143.48	-91.76	-96.71	-97.30	-119.76	-139.61
1205.0	-88.29	-96.67	-97.34	-121.63	-145.54	-90.46	-97.34	-97.59	-120.63	-143.57	-91.17	-96.70	-96.80	-120.01	-140.05
1250.0	-91.99	-97.12	-98.36	-121.30	-145.35	-88.29	-96.31	-97.80	-120.35	-143.31	-87.94	-96.83	-97.29	-120.08	-140.26
1295.0	-85.20	-95.75	-97.26	-120.96	-145.20	-88.51	-96.78	-97.47	-120.29	-143.35	-89.59	-96.68	-97.53	-120.41	-140.57
1340.0	-86.53	-94.76	-97.05	-121.10	-145.18	-87.27	-97.80	-97.24	-120.43	-143.47	-89.34	-96.29	-97.20	-120.80	-140.71
1385.0	-86.08	-98.47	-97.59	-120.79	-145.04	-87.57	-96.64	-97.81	-120.42	-143.75	-88.60	-96.66	-98.51	-121.04	-141.11
1430.0	-89.46	-93.27	-96.06	-120.51	-145.16	-87.77	-96.26	-98.22	-120.47	-143.95	-91.95	-96.55	-97.73	-121.36	-141.34
1475.0	-85.12	-95.16	-96.10	-120.41	-145.00	-86.20	-95.24	-96.88	-120.73	-144.16	-88.58	-95.37	-97.64	-121.65	-141.90

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



Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON & REFERENCE SPURIOUS @Fcarrier 1025 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON & REFERENCE SPURIOUS @Fcarrier 1250 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON & REFERENCE SPURIOUS @Fcarrier 1475 MHz± (n*Fcomparison) (dBc) NOTE 1		
	-30 °C	+25°C	+70 °C	-30 °C	+25°C	+70 °C	-30 °C	+25°C	+70 °C
-5	-131.47	-98.27	-100.63	-105.26	-101.17	-98.90	-112.33	-100.64	-107.63
-4	-81.33	-81.93	-82.77	-81.14	-82.46	-83.36	-82.66	-85.62	-88.63
-3	-96.21	-95.60	-97.58	-94.61	-97.62	-102.18	-92.68	-100.35	-100.70
-2	-78.93	-78.97	-80.76	-74.96	-75.81	-76.96	-76.66	-78.46	-79.39
-1	-108.19	-109.52	-107.82	-107.53	-98.46	-109.81	-112.91	-117.52	-104.66
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-104.54	-105.02	-103.41	-104.86	-105.33	-109.72	-108.93	-107.21	-112.94
+2	-76.93	-75.67	-74.58	-71.68	-71.29	-70.62	-73.47	-74.25	-74.09
+3	-97.25	-96.77	-97.03	-95.26	-98.40	-107.07	-94.03	-100.31	-108.67
+4	-83.01	-83.27	-82.84	-81.23	-81.98	-81.89	-84.36	-87.76	-89.90
+5	-112.14	-99.19	-101.83	-104.18	-110.08	-99.17	-108.12	-102.61	-109.39

Note 1: Reference & Comparison frequency 10 MHz

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

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