

Frequency Synthesizer

DSN-EDR9822

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURRENT (mA)		
				F2			F3								
	-25 °C	+25°C	+65 °C	-25 °C	+25°C	+65 °C	-25 °C	+25°C	+65 °C	-25 °C	+25°C	+65 °C	-25 °C	+25°C	+65 °C
940	3.38	3.25	3.09	-14.65	-15.43	-16.09	-20.33	-20.69	-20.78	19.00	18.95	18.76	33.66	34.46	35.12
950	3.34	3.22	3.07	-15.10	-15.95	-16.58	-20.00	-20.46	-20.65	19.01	18.96	18.77	33.67	34.48	35.15
1047	2.84	2.79	2.73	-19.63	-20.12	-20.36	-18.39	-19.36	-20.14	19.08	19.08	18.88	33.82	34.61	35.25
1154	2.54	2.53	2.52	-31.41	-29.49	-27.85	-17.32	-18.38	-19.48	19.18	19.16	18.97	33.99	34.75	35.37
1261	2.42	2.42	2.41	-27.93	-28.45	-27.78	-17.75	-18.92	-20.45	19.23	19.22	19.01	34.15	34.90	35.48
1368	2.50	2.50	2.48	-22.31	-23.10	-23.03	-20.09	-21.53	-23.60	19.23	19.22	19.03	34.34	35.05	35.62
1475	2.64	2.61	2.55	-19.94	-20.41	-20.26	-22.28	-23.61	-25.76	19.18	19.17	18.97	34.53	35.22	35.76
1582	2.81	2.75	2.63	-17.92	-18.94	-19.17	-23.93	-25.49	-26.82	19.23	19.23	19.03	34.65	35.32	35.85
1689	2.85	2.73	2.53	-19.65	-20.24	-20.35	-24.44	-24.79	-25.12	19.31	19.30	19.10	34.65	35.33	35.86
1796	2.77	2.60	2.36	-22.12	-22.60	-22.65	-23.71	-23.98	-24.00	19.34	19.33	19.14	34.50	35.21	35.76
1903	2.61	2.40	2.16	-25.93	-26.60	-26.50	-22.21	-22.89	-22.88	19.33	19.33	19.12	34.27	35.03	35.62
2000	2.14	1.93	1.75	-29.42	-30.24	-30.68	-23.38	-24.37	-24.50	19.20	19.23	18.98	34.05	34.85	35.48
2010	2.08	1.88	1.70	-29.66	-30.52	-31.09	-24.02	-25.04	-25.06	19.20	19.23	18.97	34.03	34.83	35.47

FREQ. (MHz)	PHASE NOISE (dBc/Hz) @ OFFSETS														
	-25 °C					+25°C					+65 °C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
940	-76.10	-80.61	-89.62	-103.32	-122.01	-77.07	-85.28	-90.55	-103.21	-123.91	-75.83	-86.92	-88.90	-103.05	-125.56
950	-79.69	-80.97	-88.98	-103.55	-122.27	-78.70	-86.64	-90.20	-103.68	-124.35	-78.24	-86.28	-88.97	-103.41	-125.94
1047	-78.12	-81.51	-87.93	-104.90	-123.31	-76.54	-85.16	-89.69	-105.22	-125.72	-77.35	-85.83	-89.56	-106.15	-127.63
1154	-74.51	-81.98	-88.55	-104.42	-121.75	-73.92	-84.99	-90.58	-104.96	-124.40	-78.99	-86.40	-89.59	-105.39	-126.98
1261	-73.77	-81.08	-88.35	-104.38	-121.30	-76.72	-86.89	-90.18	-104.64	-124.24	-78.28	-86.25	-90.65	-105.17	-126.18
1368	-73.45	-80.08	-88.08	-105.31	-123.23	-76.38	-84.20	-89.81	-105.80	-125.54	-77.46	-85.62	-89.87	-106.17	-127.63
1475	-72.33	-80.49	-87.85	-106.76	-125.26	-77.20	-83.79	-89.43	-106.93	-127.08	-80.53	-85.67	-88.88	-107.34	-128.99
1582	-73.61	-80.76	-87.45	-107.82	-126.33	-75.58	-83.83	-88.17	-107.89	-128.57	-73.63	-86.90	-88.76	-108.09	-130.39
1689	-72.94	-80.18	-87.80	-107.52	-126.12	-76.02	-86.00	-88.44	-107.61	-128.39	-76.77	-84.06	-88.61	-107.71	-130.56
1796	-73.80	-80.72	-86.55	-108.15	-127.49	-75.63	-84.04	-88.08	-108.20	-129.70	-75.66	-86.05	-87.55	-108.47	-131.53
1903	-71.48	-80.08	-85.68	-108.66	-128.48	-76.45	-83.82	-87.58	-108.69	-130.57	-73.82	-84.20	-87.44	-108.95	-132.47
2000	-71.31	-80.01	-84.79	-109.28	-129.36	-74.53	-81.45	-86.45	-109.43	-130.66	-73.75	-84.66	-86.61	-109.65	-133.42
2010	-72.62	-78.72	-85.38	-109.39	-129.48	-73.36	-84.93	-86.65	-109.51	-130.82	-73.11	-84.30	-86.81	-109.80	-133.46

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 950 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON & REFERENCE SPURIOUS @Fcarrier 1475 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON & REFERENCE SPURIOUS @Fcarrier 2000 MHz± (n*Fcomparison) (dBc) NOTE 1		
	n	-25 °C	+25°C	+65 °C	-25 °C	+25°C	+65 °C	-25 °C	+25°C
-5	-104.90	-103.47	-101.95	-127.93	-118.33	-114.75	-119.87	-126.90	-118.75
-4	-112.97	-122.92	-116.33	-125.09	-123.25	-120.96	-111.51	-120.50	-115.50
-3	-113.30	-115.72	-114.90	-117.68	-116.68	-116.51	-125.44	-120.27	-119.60
-2	-122.38	-108.61	-111.35	-114.68	-112.83	-112.20	-99.33	-114.59	-104.81
-1	-104.43	-119.04	-111.94	-118.35	-120.71	-121.75	-93.95	-125.85	-105.71
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-105.35	-120.12	-112.37	-117.74	-117.57	-122.70	-92.83	-120.73	-108.48
+2	-122.91	-108.57	-111.15	-114.51	-113.88	-112.29	-97.18	-118.77	-109.46
+3	-114.05	-115.27	-115.37	-116.94	-117.13	-116.66	-112.39	-118.75	-116.02
+4	-113.46	-123.15	-115.23	-122.61	-121.22	-119.39	-111.62	-119.98	-112.68
+5	-105.45	-103.92	-102.73	-129.20	-117.22	-113.70	-118.44	-135.62	-118.14

Note 1: Comparison & Reference frequency 10 MHz

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

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