

Frequency Synthesizer

KSN-860A-119+

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURENT (mA)		
				F2			F3								
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
856.6	3.62	3.84	3.77	-23.99	-25.79	-28.09	-35.36	-37.37	-39.97	29.25	31.34	32.90	7.85	9.98	11.97
857.0	3.61	3.84	3.77	-24.02	-25.83	-28.14	-35.33	-37.38	-40.01	29.25	31.34	32.90	7.85	9.98	11.96
857.6	3.61	3.83	3.77	-24.08	-25.88	-28.18	-35.31	-37.37	-40.02	29.24	31.34	32.90	7.85	9.99	11.97
858.0	3.60	3.83	3.77	-24.12	-25.92	-28.21	-35.29	-37.36	-40.02	29.24	31.34	32.90	7.85	9.99	11.97
858.6	3.60	3.83	3.77	-24.21	-25.99	-28.29	-35.25	-37.31	-39.99	29.24	31.34	32.90	7.85	9.99	11.97

FREQ. (MHz)	PHASE NOISE (dBc/Hz) @ OFFSETS														
	-45°C					+25°C					+85°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
856.6	-53.98	-78.26	-98.27	-125.40	-145.56	-49.89	-79.20	-102.34	-124.71	-145.07	-50.33	-77.22	-95.16	-123.47	-143.73
857.0	-53.65	-78.21	-98.53	-125.22	-145.38	-51.94	-79.33	-102.03	-124.56	-144.77	-49.64	-77.33	-96.52	-123.55	-143.59
857.6	-54.68	-78.77	-98.23	-125.58	-145.48	-47.92	-78.89	-101.58	-124.60	-144.91	-49.43	-77.14	-97.07	-123.49	-143.70
858.0	-56.10	-77.89	-98.80	-125.37	-145.69	-51.85	-78.76	-101.28	-124.51	-144.84	-51.87	-78.09	-96.88	-123.47	-143.74
858.6	-57.33	-79.49	-98.98	-125.33	-145.68	-50.78	-78.09	-101.16	-124.56	-144.85	-51.04	-76.60	-96.99	-123.66	-143.77

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Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 856.6MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 857.6MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 858.6MHz± (n*Fcomparison) (dBc) NOTE 1		
	n	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C
-5	-84.36	-85.04	-82.66	-83.49	-84.46	-86.85	-83.00	-83.76	-87.23
-4	-81.74	-82.73	-80.99	-80.54	-82.50	-83.56	-82.54	-82.22	-82.15
-3	-79.78	-79.59	-75.35	-78.18	-80.83	-78.31	-79.29	-79.51	-78.33
-2	-74.62	-76.12	-68.18	-73.05	-76.84	-71.71	-76.16	-75.39	-72.23
-1	-63.72	-75.02	-50.25	-68.36	-71.97	-53.32	-63.72	-69.56	-54.08
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-64.41	-69.46	-50.52	-70.22	-69.42	-52.40	-70.50	-69.85	-53.81
+2	-73.84	-76.81	-68.83	-73.02	-75.88	-70.30	-73.79	-73.70	-72.24
+3	-79.88	-79.82	-75.17	-79.40	-80.63	-78.36	-79.46	-79.63	-78.77
+4	-82.40	-81.42	-80.57	-81.12	-82.96	-85.99	-80.91	-83.07	-84.25
+5	-84.77	-84.24	-85.64	-82.43	-83.09	-87.50	-83.83	-84.43	-88.86

Note 1: Comparison frequency 5 kHz

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

REFERENCE SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 856.6MHz± (n*Reference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 857.6MHz± (n*Reference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 858.6MHz± (n*Reference) (dBc) NOTE 3		
	n	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C
-5	-126.65	-126.95	-127.08	-126.75	-126.67	-128.92	-127.06	-125.91	-129.61
-4	-128.02	-126.24	-130.72	-127.10	-131.13	-131.57	-129.52	-129.77	-131.56
-3	-121.61	-119.33	-122.73	-120.68	-120.04	-121.75	-120.65	-120.00	-121.09
-2	-131.28	-129.88	-131.12	-131.86	-128.79	-131.95	-130.98	-129.80	-130.93
-1	-114.40	-112.51	-112.80	-114.95	-113.25	-115.51	-114.69	-113.36	-112.14
0 ^{note 4}	-	-	-	-	-	-	-	-	-
+1	-113.89	-113.86	-112.24	-114.75	-115.06	-113.91	-115.62	-113.73	-111.84
+2	-130.13	-130.74	-130.95	-131.65	-132.03	-130.68	-130.46	-131.54	-131.74
+3	-124.85	-123.94	-124.55	-126.66	-124.33	-126.50	-125.80	-123.55	-123.83
+4	-131.37	-127.09	-132.12	-130.60	-131.12	-131.28	-130.41	-129.18	-129.66
+5	-127.55	-125.25	-125.37	-124.64	-126.02	-130.15	-128.67	-125.73	-126.39

Note 3: Reference frequency 10 MHz

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

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