

Frequency Synthesizer

KSN-1941A-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
1875	3.31	3.43	3.06	-48.76	-56.81	-50.57	-48.46	-55.78	-54.94	29.26	30.75	31.69	10.07	12.14	14.15
1881	3.34	3.45	3.09	-49.43	-56.36	-49.96	-50.88	-57.79	-56.45	29.25	30.74	31.69	10.07	12.15	14.16
1887	3.36	3.46	3.11	-50.38	-56.06	-49.12	-52.40	-59.56	-58.12	29.22	30.73	31.69	10.08	12.15	14.16
1893	3.37	3.47	3.12	-51.47	-57.05	-48.03	-53.49	-59.31	-59.97	29.19	30.71	31.69	10.09	12.15	14.16
1899	3.38	3.47	3.13	-51.13	-58.52	-47.45	-55.07	-59.06	-60.85	29.17	30.70	31.69	10.09	12.15	14.17
1905	3.40	3.48	3.15	-50.51	-62.41	-47.12	-56.76	-58.89	-61.24	29.14	30.68	31.68	10.09	12.17	14.18
1911	3.44	3.49	3.18	-49.16	-64.46	-47.74	-56.35	-58.11	-60.49	29.11	30.67	31.68	10.11	12.19	14.18
1917	3.48	3.48	3.21	-47.95	-60.47	-48.54	-55.58	-55.33	-59.52	29.07	30.64	31.67	10.12	12.19	14.17
1923	3.51	3.49	3.23	-47.48	-57.14	-49.81	-53.03	-53.51	-58.72	29.04	30.63	31.66	10.11	12.19	14.19
1929	3.52	3.51	3.25	-47.33	-55.39	-50.99	-50.58	-53.91	-57.63	29.01	30.61	31.65	10.12	12.19	14.21
1935	3.53	3.54	3.26	-47.84	-54.23	-51.76	-48.35	-53.38	-55.12	28.97	30.59	31.63	10.13	12.20	14.22
1941	3.54	3.58	3.27	-48.86	-54.08	-52.35	-47.00	-51.22	-52.98	28.93	30.58	31.61	10.14	12.22	14.22

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
1875	-79.30	-81.21	-93.32	-126.03	-147.06	-83.12	-83.53	-94.95	-126.22	-146.72	-80.98	-78.47	-93.56	-126.18	-145.91
1881	-78.45	-80.88	-93.24	-125.87	-146.39	-81.76	-82.83	-94.95	-126.26	-146.88	-81.73	-78.72	-92.86	-126.17	-145.40
1887	-78.50	-80.41	-93.22	-125.77	-146.22	-81.03	-82.20	-94.90	-126.29	-147.01	-81.43	-78.88	-92.22	-126.12	-145.58
1893	-79.45	-79.86	-93.25	-125.69	-146.31	-80.92	-82.23	-94.42	-126.31	-146.93	-80.06	-78.93	-91.65	-126.04	-146.43
1899	-79.94	-79.50	-93.43	-125.52	-145.86	-81.35	-82.24	-93.98	-126.31	-146.90	-80.04	-79.06	-91.58	-125.97	-146.06
1905	-80.19	-79.18	-93.64	-125.33	-145.31	-82.04	-82.10	-93.71	-126.22	-147.12	-80.69	-79.23	-91.75	-125.91	-145.07
1911	-79.00	-79.28	-93.54	-125.30	-144.66	-81.59	-82.11	-93.55	-126.16	-147.26	-80.65	-78.97	-91.98	-125.88	-145.68
1917	-77.52	-79.45	-93.47	-125.27	-144.02	-80.90	-82.63	-93.76	-126.14	-147.12	-80.46	-78.63	-92.23	-125.86	-146.61
1923	-77.58	-79.92	-93.53	-125.24	-143.51	-81.31	-82.87	-94.05	-126.12	-147.02	-81.01	-78.21	-92.26	-125.82	-145.90
1929	-77.75	-80.06	-93.51	-125.19	-143.73	-81.43	-82.47	-94.52	-126.08	-146.99	-81.34	-77.86	-92.31	-125.75	-145.34
1935	-78.46	-79.51	-93.34	-125.10	-145.44	-80.02	-81.77	-94.74	-126.05	-146.90	-80.59	-77.89	-92.48	-125.54	-145.53
1941	-81.02	-81.67	-93.26	-124.99	-145.42	-78.73	-80.58	-94.53	-126.01	-146.72	-81.1	-78.0	-92.0	-125.49	-145.41

REV. X1

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Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 1875MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1908MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1941MHz± (n*Fcomparison) (dBc) NOTE 1		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
-5	-124.84	-117.72	-106.60	-102.28	-117.79	-103.61	-107.36	-104.76	-102.31
-4	-114.31	-110.30	-100.85	-100.05	-108.99	-100.47	-122.24	-119.16	-113.21
-3	-105.34	-115.12	-108.24	-98.11	-106.28	-97.36	-118.01	-116.34	-107.61
-2	-115.18	-107.36	-96.05	-95.22	-111.71	-95.72	-115.38	-112.20	-107.92
-1	-108.51	-102.07	-90.39	-89.20	-99.62	-88.89	-106.05	-113.12	-97.11
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-110.11	-103.53	-90.48	-88.93	-100.32	-88.43	-109.88	-112.97	-96.52
+2	-115.30	-106.61	-95.43	-94.44	-111.81	-95.54	-116.19	-114.22	-106.11
+3	-104.81	-110.82	-106.70	-96.87	-105.32	-97.19	-116.79	-115.47	-105.47
+4	-114.50	-110.99	-100.70	-99.92	-108.46	-100.03	-119.02	-117.46	-110.89
+5	-126.32	-118.64	-105.99	-101.38	-115.21	-102.99	-107.32	-103.69	-101.83

Note 1: Comparison frequency 200 kHz

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

REFERENCE SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 1875MHz± (n*Reference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 1908MHz± (n*Reference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 1941MHz± (n*Reference) (dBc) NOTE 3		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
-5	-128.08	-127.65	-126.85	-123.40	-131.25	-130.64	-129.25	-130.77	-130.29
-4	-121.69	-129.35	-129.50	-118.19	-129.84	-130.95	-117.39	-124.70	-127.22
-3	-129.90	-126.97	-127.21	-120.97	-130.08	-129.83	-121.48	-122.85	-122.55
-2	-111.10	-112.70	-111.61	-105.45	-118.67	-116.30	-109.72	-111.05	-110.66
-1	-108.64	-98.76	-101.98	-96.99	-108.92	-109.68	-96.81	-102.50	-104.77
0 ^{note 4}	-	-	-	-	-	-	-	-	-
+1	-117.18	-126.79	-120.19	-112.91	-113.24	-118.73	-113.64	-111.63	-110.49
+2	-110.89	-110.18	-112.32	-108.07	-115.39	-114.91	-107.59	-109.52	-109.34
+3	-127.80	-130.22	-125.57	-121.79	-126.65	-124.61	-121.43	-130.28	-129.11
+4	-129.60	-122.38	-126.15	-119.24	-129.94	-124.82	-116.14	-124.89	-131.06
+5	-122.17	-127.03	-124.72	-127.92	-128.21	-125.14	-132.88	-131.97	-130.71

Note 3: Reference frequency 10 MHz

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