

Frequency Synthesizer

KSN-1486A-119+

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURENT (mA)		
				F2			F3			-5°C	+25°C	+55°C	-5°C	+25°C	+55°C
	-5°C	+25°C	+55°C	-5°C	+25°C	+55°C	-5°C	+25°C	+55°C						
1457.00	7.76	7.24	7.23	-47.71	-45.32	-41.64	-38.67	-49.95	-44.05	60.57	61.48	62.52	20.15	21.94	23.80
1459.00	7.75	7.23	7.23	-46.19	-45.21	-42.40	-39.05	-49.94	-44.25	60.58	61.49	62.53	20.25	22.05	23.94
1462.00	7.74	7.22	7.22	-45.18	-47.21	-43.43	-38.87	-49.97	-44.28	60.59	61.50	62.55	20.33	22.14	24.05
1465.00	7.73	7.21	7.21	-43.86	-47.78	-44.37	-38.89	-49.22	-44.30	60.59	61.50	62.54	20.31	22.12	24.04
1468.00	7.72	7.19	7.21	-43.57	-49.40	-45.45	-39.01	-49.82	-43.99	60.59	61.51	62.55	20.17	21.97	23.88
1471.00	7.70	7.18	7.20	-43.08	-49.12	-46.26	-38.93	-48.70	-43.65	60.59	61.52	62.57	19.98	21.76	23.66
1474.00	7.69	7.17	7.19	-42.17	-47.47	-48.21	-39.02	-47.19	-43.99	60.59	61.53	62.57	19.78	21.55	23.43
1477.00	7.67	7.15	7.17	-41.37	-46.75	-49.69	-38.99	-46.75	-43.80	60.61	61.55	62.60	19.84	21.61	23.51
1480.00	7.65	7.12	7.15	-41.00	-45.51	-50.17	-39.19	-45.80	-43.60	60.59	61.55	62.59	20.11	21.89	23.80
1483.00	7.62	7.10	7.13	-40.79	-43.96	-50.54	-39.24	-45.18	-43.68	60.59	61.54	62.59	20.20	22.00	23.91
1489.00	7.58	7.05	7.09	-39.86	-41.20	-49.79	-38.80	-43.28	-42.62	60.58	61.55	62.60	20.37	22.18	24.11

FREQ. (MHz)	PHASE NOISE (dBc/Hz) @ OFFSETS														
	-5°C					+25°C					+55°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
1457.00	-84.25	-92.05	-103.88	-129.64	-150.14	-88.29	-92.52	-104.74	-130.23	-150.30	-84.05	-92.89	-104.57	-130.93	-150.75
1459.00	-82.63	-92.25	-103.94	-129.88	-148.77	-83.94	-93.69	-105.02	-130.30	-150.61	-86.57	-95.98	-104.55	-130.56	-150.15
1462.00	-85.42	-92.82	-104.27	-129.96	-149.71	-85.70	-93.98	-104.53	-130.51	-149.15	-83.08	-93.57	-104.35	-130.66	-150.85
1465.00	-83.27	-92.83	-104.36	-130.23	-150.02	-81.08	-91.33	-105.13	-130.58	-150.74	-84.57	-93.92	-103.93	-131.02	-150.94
1468.00	-85.81	-93.61	-103.77	-129.97	-149.21	-80.76	-91.93	-104.53	-130.67	-150.86	-83.63	-93.34	-104.15	-131.00	-150.85
1471.00	-82.24	-92.58	-104.10	-129.99	-150.36	-84.98	-93.56	-104.99	-130.41	-150.75	-83.86	-92.36	-104.13	-130.90	-150.99
1474.00	-85.31	-92.68	-103.87	-130.04	-150.30	-88.13	-91.92	-104.42	-130.72	-150.80	-84.13	-94.23	-103.54	-131.10	-151.03
1477.00	-84.90	-92.81	-103.70	-129.96	-150.50	-84.43	-93.82	-104.54	-130.64	-150.99	-85.43	-92.61	-103.78	-131.24	-151.21
1480.00	-84.26	-93.15	-102.63	-130.05	-150.56	-86.78	-93.22	-104.68	-130.54	-151.12	-84.57	-93.72	-103.58	-130.90	-151.27
1483.00	-83.81	-93.84	-103.83	-130.35	-150.54	-83.63	-92.33	-104.81	-131.13	-151.11	-82.98	-92.93	-103.87	-131.22	-151.40
1489.00	-84.20	-93.47	-104.28	-130.33	-150.26	-85.87	-93.22	-105.17	-130.98	-151.18	-84.17	-92.08	-103.73	-131.00	-151.41

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Typical Performance Data

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE & COMPARISON SPURIOUS @Fcarrier 1457MHz± (n*Fcomparison) (dBc) NOTE 1			REFERENCE & COMPARISON SPURIOUS @Fcarrier 1469MHz± (n*Fcomparison) (dBc) NOTE 1			REFERENCE & COMPARISON SPURIOUS @Fcarrier 1489MHz± (n*Fcomparison) (dBc) NOTE 1		
	-5°C	+25°C	+55°C	-5°C	+25°C	+55°C	-5°C	+25°C	+55°C
	n								
-5	-97.02	-100.14	-97.05	-96.21	-123.18	-100.16	-110.61	-100.47	-96.41
-4	-103.80	-97.33	-96.49	-103.34	-95.22	-95.88	-97.46	-95.51	-95.70
-3	-99.39	-91.06	-90.87	-95.82	-90.00	-91.04	-92.05	-90.64	-93.68
-2	-98.27	-90.55	-86.93	-96.94	-88.46	-86.87	-94.35	-87.07	-88.03
-1	-92.11	-103.17	-89.70	-89.43	-94.65	-87.52	-97.38	-88.23	-86.45
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-85.40	-82.89	-85.22	-81.74	-84.62	-85.28	-86.73	-86.03	-84.10
+2	-87.57	-89.35	-91.17	-88.13	-89.16	-91.14	-88.31	-90.14	-91.89
+3	-84.43	-85.47	-85.68	-83.72	-84.99	-84.81	-84.32	-84.02	-83.78
+4	-89.81	-102.43	-102.33	-90.99	-102.83	-95.83	-92.00	-96.66	-92.55
+5	-91.81	-99.14	-92.37	-87.40	-87.44	-88.12	-89.17	-87.71	-89.16

Note 1: Comparison and Reference frequency 25 MHz

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

STEP SIZE SPURIOUS ORDER	STEP SIZE SPURIOUS @Fcarrier 1457MHz± (n*Fstep size) (dBc) NOTE 3			STEP SIZE SPURIOUS @Fcarrier 1469MHz± (n*Fstep size) (dBc) NOTE 3			STEP SIZE SPURIOUS @Fcarrier 1489MHz± (n*Fstep size) (dBc) NOTE 3		
	-5°C	+25°C	+55°C	-5°C	+25°C	+55°C	-5°C	+25°C	+55°C
	n								
-5	-113.92	-102.74	-102.24	-108.63	-105.35	-100.20	-121.31	-113.38	-97.73
-4	-106.94	-100.23	-101.47	-119.74	-106.62	-102.93	-100.26	-100.83	-101.32
-3	-101.40	-93.54	-96.23	-102.40	-94.85	-102.12	-99.23	-91.71	-96.25
-2	-97.98	-93.19	-93.85	-100.27	-93.31	-91.02	-94.79	-91.50	-96.81
-1	-94.91	-97.43	-89.27	-94.38	-91.83	-87.12	-92.87	-91.77	-89.68
0 ^{note 4}	-	-	-	-	-	-	-	-	-
+1	-94.39	-98.00	-89.29	-95.16	-92.71	-86.67	-93.27	-91.95	-89.90
+2	-98.47	-93.81	-93.12	-99.80	-94.49	-90.81	-94.11	-91.48	-96.49
+3	-100.32	-92.79	-95.31	-99.02	-96.12	-100.97	-97.85	-92.47	-97.20
+4	-104.15	-103.46	-99.31	-117.64	-104.84	-104.16	-101.75	-100.05	-101.16
+5	-108.72	-101.53	-100.45	-110.33	-111.36	-101.13	-105.08	-102.56	-101.79

Note 3: Step Size frequency 1000 KHz

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