Frequency Synthesizer KSN-1825A+

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURENT (mA)		
				F2			F3								
	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC
1765	0.54	0.42	0.22	-23.77	-24.81	-26.25	-37.10	-40.09	-40.09	21.46	22.26	22.69	9.61	11.65	13.59
1771	0.59	0.45	0.27	-24.01	-25.06	-26.57	-37.42	-39.62	-39.87	21.48	22.27	22.65	9.62	11.68	13.62
1779	0.65	0.48	0.26	-24.24	-25.16	-26.73	-37.81	-39.97	-40.39	21.49	22.27	22.70	9.63	11.69	13.63
1787	0.68	0.48	0.28	-24.12	-24.98	-26.56	-39.04	-41.26	-41.26	21.49	22.27	22.65	9.63	11.70	13.63
1795	0.72	0.50	0.28	-24.14	-24.97	-26.90	-39.92	-41.87	-41.26	21.50	22.27	22.64	9.64	11.71	13.64
1803	0.76	0.49	0.23	-24.43	-25.67	-27.51	-40.92	-41.74	-41.42	21.50	22.25	22.67	9.64	11.71	13.66
1811	0.78	0.46	0.18	-25.04	-26.23	-28.07	-41.29	-41.56	-40.91	21.48	22.23	22.64	9.64	11.72	13.66
1819	0.61	0.57	0.22	-25.30	-26.22	-27.92	-41.90	-42.26	-41.14	21.58	22.14	22.43	9.65	11.72	13.66
1825	0.77	0.45	0.19	-25.17	-26.23	-28.15	-43.06	-42.67	-41.19	21.29	22.19	22.55	9.65	11.72	13.67

FREQ. (MHz)	PHASE NOISE (dBc/Hz) @ OFFSETS														
	-45ºC					+25ºC					+85ºC				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
1765	-75.74	-73.08	-108.91	-131.53	-151.45	-74.23	-74.82	-108.86	-129.88	-150.79	-73.09	-72.04	-107.73	-128.84	-149.63
1771	-74.16	-72.29	-108.56	-131.41	-151.11	-73.82	-73.42	-108.38	-129.52	-150.18	-72.07	-72.12	-106.82	-129.28	-149.22
1779	-72.50	-73.85	-108.55	-130.98	-151.36	-70.64	-73.50	-107.66	-128.71	-150.87	-72.44	-72.76	-107.16	-128.68	-149.65
1787	-74.37	-72.26	-107.98	-131.30	-151.56	-72.56	-75.05	-108.61	-130.38	-150.66	-72.46	-74.54	-106.92	-129.24	-149.17
1795	-73.57	-72.39	-108.24	-131.24	-150.66	-71.39	-75.19	-108.13	-130.43	-150.41	-71.12	-73.37	-106.70	-128.19	-149.54
1803	-70.78	-72.63	-107.92	-131.04	-151.10	-70.41	-73.03	-107.86	-128.74	-150.10	-71.39	-73.21	-107.09	-127.13	-148.75
1811	-73.68	-73.29	-108.11	-129.73	-148.86	-72.10	-73.89	-107.80	-129.25	-149.66	-70.91	-72.18	-106.89	-127.67	-148.55
1819	-69.28	-75.02	-107.10	-129.79	-148.97	-72.12	-73.54	-106.75	-129.50	-149.25	-69.11	-74.93	-106.46	-128.32	-148.21
1825	-70.44	-73.82	-107.52	-129.84	-150.02	-68.94	-74.99	-107.67	-126.20	-149.91	-66.63	-73.09	-106.25	-127.11	-149.19

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Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 1765MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1795MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 1825MHz± (n*Fcomparison) (dBc) NOTE 1		
n	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC
-5	-99.14	-94.87	-99.06	-98.58	-97.99	-99.77	-96.79	-98.67	-99.08
-4	-97.07	-97.69	-95.59	-95.49	-91.88	-93.36	-94.24	-93.75	-93.09
-3	-88.97	-88.52	-90.68	-89.77	-90.16	-87.03	-84.72	-88.31	-88.23
-2	-82.24	-86.89	-86.50	-85.20	-87.19	-86.29	-85.16	-88.34	-82.12
-1	-83.19	-82.89	-88.37	-83.81	-84.70	-83.91	-82.32	-84.07	-83.34
0 note 2	-	-	-	-	-	-	-	-	-
+1	-83.44	-88.51	-86.90	-84.04	-87.15	-83.32	-82.81	-84.06	-83.17
+2	-84.38	-87.14	-83.08	-85.09	-87.74	-82.12	-86.47	-84.44	-86.48
+3	-90.79	-89.38	-91.31	-91.54	-89.69	-87.27	-85.41	-89.42	-88.54
+4	-94.47	-94.60	-92.70	-97.07	-95.97	-95.55	-92.82	-92.35	-96.70
+5	-97.42	-101.43	-99.34	-94.88	-100.02	-96.51	-96.69	-101.98	-100.13

Note 1: Comparison frequency 50 kHz
Note 2: All spurs are referenced to carrier signal (n=0).

REFERENCE SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 1765MHz± (n*Freference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 1795MHz± (n*Freference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 1825MHz± (n*Freference) (dBc) NOTE 3		
n	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC	-45ºC	+25ºC	+85ºC
-5	-128.29	-127.59	-127.63	-125.22	-129.84	-128.68	-127.59	-126.07	-128.18
-4	-122.50	-127.64	-123.72	-122.20	-126.68	-124.81	-124.12	-124.23	-126.96
-3	-122.94	-125.26	-126.04	-128.24	-128.61	-128.43	-128.27	-128.74	-128.36
-2	-118.65	-121.13	-117.89	-117.81	-120.37	-118.62	-120.76	-122.92	-125.82
-1	-117.70	-117.66	-109.50	-117.56	-111.57	-106.75	-106.12	-104.61	-107.11
0 note 4	-	-	-	-	-	-	-	-	-
+1	-112.93	-113.41	-117.61	-118.42	-119.98	-111.68	-113.43	-110.25	-112.83
+2	-118.30	-122.26	-118.76	-117.99	-119.51	-118.09	-118.29	-119.56	-118.49
+3	-129.03	-126.22	-125.66	-128.89	-128.10	-126.77	-124.91	-125.01	-128.72
+4	-120.55	-125.46	-124.45	-120.29	-125.29	-125.96	-123.75	-125.58	-128.52
+5	-129.93	-128.15	-128.54	-129.93	-128.87	-127.32	-125.92	-126.89	-129.54

Note 3: Reference frequency 15 MHz
Note 4: All spurs are referenced to carrier signal (n=0).

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