

Frequency Synthesizer

KSN-490A-1C19+

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						
490	0.68	0.38	-0.24	-37.69	-40.10	-42.90	-31.88	-29.90	-26.38	38.56	41.56	43.21	8.22	9.93	11.39

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
490	-97.70	-104.75	-106.01	-136.81	-157.39	-94.33	-105.36	-105.93	-136.41	-157.24	-98.22	-103.1	-105.20	-133.98	-154.91

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 490MHz± (n*Fcomparison) (dBc) NOTE 1		
	-45°C	+25°C	+85°C
n			
-5	-84.38	-82.84	-81.75
-4	-92.40	-82.99	-79.71
-3	-91.14	-81.67	-80.48
-2	-86.35	-81.56	-80.23
-1	-79.65	-78.03	-78.71
0 ^{note 2}	-	-	-
+1	-74.59	-80.63	-77.57
+2	-75.67	-80.21	-78.11
+3	-80.49	-80.97	-79.97
+4	-85.02	-81.07	-79.25
+5	-81.89	-82.62	-81.16

Note 1: Comparison frequency 5 MHz

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

REFERENCE SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 490MHz± (n*FReference) (dBc) NOTE 3		
	-45°C	+25°C	+85°C
n			
-5	-86.76	-82.21	-80.83
-4	-97.54	-83.38	-80.71
-3	-84.47	-83.63	-81.91
-2	-92.40	-82.99	-79.71
-1	-86.35	-81.56	-80.23
0 ^{note 4}	-	-	-
+1	-75.67	-80.21	-78.11
+2	-85.02	-81.07	-79.25
+3	-83.92	-85.04	-81.23
+4	-85.94	-81.15	-80.92
+5	-83.71	-80.95	-79.80

Note 3: Reference frequency 10 MHz

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



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