

Frequency Synthesizer

KSN-EDR10970

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURRENT (mA)		
				F2			F3								
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
490	-0.33	-0.48	-1.36	-32.46	-35.20	-38.23	-32.47	-30.73	-27.94	36.80	40.30	42.49	9.65	11.98	13.61

FREQ. (MHz)	PHASE NOISE (dBc/Hz)														
	@ OFFSETS														
	-40°C					+25°C					+85°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
490	-99.02	-106.06	-108.01	-130.55	-158.03	-101.20	-106.68	-107.57	-130.14	-156.03	-99.20	-107.14	-106.89	-127.80	-152.96

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 490MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 490 MHz± (n*Fcomparison) (dBc) NOTE 2		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
n						
-5	-66.94	-72.91	-72.97	-85.38	-89.92	-89.3
-4	-67.42	-72.72	-72.6	-78.03	-81.59	-82.64
-3	-87.22	-81.47	-85.68	-85.01	-89.31	-89.62
-2	-73.32	-80	-85.52	-87.56	-88.89	-89.51
-1	-69.46	-70.79	-73.72	-81.35	-82.79	-84.75
0 note 3	-	-	-	-	-	-
+1	-71.99	-74.93	-72.36	-78.61	-82.63	-82.85
+2	-77.24	-87.43	-80.91	-87.96	-88.61	-86.09
+3	-75.45	-73.8	-74.36	-88.21	-85.77	-84.32
+4	-74.05	-70.44	-70.13	-82.34	-81.45	-81.2
+5	-68.65	-68.88	-70	-86.16	-82.33	-81.9

Note 1: Reference frequency 49 MHz.

Note 2: Comparison frequency 7 MHz.

Note 3: All spurs are referenced to carrier signal (n=0).

Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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