

Frequency Synthesizer

KSN-EDR10920SA

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURRENT (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
2300	4.90	6.06	6.05	-17.23	-18.31	-19.58	-15.58	-16.57	-17.82	23.45	0.00	25.21	94.71	100.48	107.29
2475	4.23	5.44	5.37	-16.69	-17.89	-18.74	-19.15	-20.76	-22.00	23.46	0.00	25.22	94.94	100.54	107.20

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
2300	-74.04	-89.44	-95.59	-108.88	-137.94	-74.04	-90.66	-97.50	-107.92	-136.15	-74.55	-91.76	-97.50	-106.12	-134.26
2475	-71.64	-89.48	-93.75	-110.36	-137.12	-75.70	-89.21	-95.05	-108.65	-135.49	-75.00	-90.86	-95.48	-105.71	-133.80

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.
 C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCStore/terms.jsp



Frequency Synthesizer

KSN-EDR10920SA

Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 2300 MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 2475 MHz± (n*Fcomparison) (dBc) NOTE 1		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
-5	-79.46	-100.25	-95.95	-64.62	-67.19	-69.47
-4	-82.56	-83.33	-86.78	-69.09	-70.56	-69.83
-3	-75.10	-75.12	-76.44	-99.97	-93.29	-87.90
-2	-75.45	-73.05	-73.75	-86.56	-87.52	-82.08
-1	-81.48	-82.05	-79.40	-80.46	-81.01	-78.60
0 ^{note 2}	-	-	-	-	-	-
+1	-76.30	-76.60	-74.58	-76.18	-76.28	-74.92
+2	-45°C	-76.23	-73.94	-73.74	-75.38	-76.04
+3	-92.33	-95.06	-89.89	-83.72	-80.87	-81.61
+4	-77.28	-79.26	-82.78	-69.79	-70.52	-71.99
+5	-75.67	-77.79	-81.75	-65.98	-69.20	-73.63

Note 1: Comparison frequency 100 kHz

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

REFERENCE SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 2300 MHz± (n*Freference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 2475 MHz± (n*Freference) (dBc) NOTE 3		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
-5	-79.46	-100.25	-95.95	-64.62	-67.19	-69.47
-4	-82.56	-83.33	-86.78	-69.09	-70.56	-69.83
-3	-75.10	-75.12	-76.44	-99.97	-93.29	-87.90
-2	-75.45	-73.05	-73.75	-86.56	-87.52	-82.08
-1	-81.48	-82.05	-79.40	-80.46	-81.01	-78.60
0 ^{note 4}	-	-	-	-	-	-
+1	-76.30	-76.60	-74.58	-76.18	-76.28	-74.92
+2	-78.09	-76.23	-73.94	-73.74	-75.38	-76.04
+3	-92.33	-95.06	-89.89	-83.72	-80.87	-81.61
+4	-77.28	-79.26	-82.78	-69.79	-70.52	-71.99
+5	-75.67	-77.79	-81.75	-65.98	-69.20	-73.63

Note 3: Reference frequency 100 MHz

Note 4: 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.
 C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCSTerms.jsp

