

Frequency Synthesizer

KSN-EDR10835SA

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURRENT (mA)		
				F2			F3								
	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C	-15 °C	+25°C	+75 °C
870	3.12	3.12	3.20	-26.97	-27.79	-29.51	-51.61	-47.11	-52.35	41.90	42.91	43.86	9.23	10.27	11.24
880	3.10	3.10	3.17	-27.81	-28.99	-30.47	-52.83	-47.44	-54.07	41.78	42.82	43.81	9.00	10.04	11.01
890	3.03	3.03	3.11	-28.91	-29.66	-31.47	-53.76	-47.35	-53.93	41.62	42.69	43.74	9.03	10.07	11.05
900	2.91	2.91	3.01	-29.11	-30.06	-31.50	-52.96	-48.23	-53.42	41.44	42.54	43.63	9.13	10.17	11.15
910	2.80	2.80	2.91	-30.98	-31.51	-33.17	-52.37	-47.97	-53.14	41.24	42.36	43.49	9.17	10.21	11.20

FREQ. (MHz)	PHASE NOISE (dBc/Hz) @ OFFSETS														
	-15°C					+25°C					+75°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
870	-97.80	-107.34	-108.60	-123.16	-151.48	-97.56	-108.81	-109.33	-122.58	-152.43	-97.49	-108.07	-108.62	-123.56	-151.97
880	-95.59	-104.69	-107.55	-125.03	-152.89	-98.01	-108.19	-108.06	-125.36	-153.51	-96.96	-105.36	-107.10	-125.32	-152.53
890	-92.46	-108.17	-107.06	-125.72	-153.82	-97.63	-108.35	-107.39	-125.92	-154.44	-99.00	-107.30	-107.05	-125.22	-152.96
900	-97.64	-105.25	-107.32	-125.54	-154.37	-97.45	-106.89	-107.24	-125.92	-154.45	-94.50	-105.20	-106.16	-125.80	-153.25
910	-95.36	-105.93	-106.03	-126.88	-154.24	-96.56	-105.82	-105.19	-127.39	-154.22	-97.39	-106.01	-104.50	-126.85	-153.18

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COMPARISON & REFERENCE SPURIOUS ORDER n	COMPARISON & REFERENCE SPURIOUS @F _{carrier} 890 MHz± (n*F _{comparison}) (dBc) NOTE 1		
	-15°C	+25°C	+75°C
-5	-90.82	-99.81	-99.84
-4	-94.96	-101.71	-101.63
-3	-102.38	-97.17	-97.26
-2	-100.48	-90.17	-90.15
-1	-88.87	-84.24	-84.14
0 ^{note 2}	-	-	-
+1	-79.48	-86.90	-86.90
+2	-81.14	-85.44	-85.44
+3	-82.62	-83.88	-83.92
+4	-83.05	-82.79	-82.86
+5	-84.92	-83.67	-83.55

Note 1: Comparison & Reference frequency 10 MHz

Note 2: 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/MCStore/terms.jsp

