

Frequency Synthesizer

KSN-EDR9887/2SA

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
3480	8.52	8.49	8.23	-26.08	-33.27	-35.18	-31.39	-29.46	-34.21	53.26	54.74	55.35	15.74	17.56	20.38
3490	8.59	8.54	8.28	-25.60	-33.34	-34.69	-32.06	-29.16	-34.57	53.23	54.73	55.33	16.16	18.05	20.76
3522	8.75	8.74	8.45	-26.58	-34.14	-34.67	-31.73	-28.61	-33.65	53.10	54.67	55.23	16.29	18.31	20.96
3564	8.84	8.93	8.48	-26.62	-35.23	-32.91	-31.40	-28.76	-34.17	53.01	54.47	55.08	16.35	18.36	21.04
3606	9.04	9.04	8.64	-25.01	-32.22	-31.36	-32.04	-29.10	-37.04	52.85	54.37	54.93	16.41	18.42	21.11
3648	9.12	9.25	8.75	-24.16	-31.59	-30.31	-34.48	-30.47	-35.92	52.59	54.12	54.70	16.44	18.46	21.15
3690	9.28	9.20	8.73	-24.37	-29.47	-30.24	-33.70	-30.14	-35.37	52.57	53.91	54.64	16.16	18.11	20.84
3732	9.22	9.33	8.80	-23.96	-27.79	-29.69	-32.11	-30.41	-35.31	52.02	53.65	54.30	16.42	18.47	21.12
3774	9.19	9.23	8.67	-24.44	-27.60	-30.07	-30.13	-29.14	-34.68	51.88	53.25	54.20	16.39	18.41	21.10
3816	9.11	9.16	8.73	-24.94	-27.61	-30.39	-30.61	-29.99	-35.79	51.20	52.99	53.95	16.36	18.37	21.07
3858	8.70	8.96	8.40	-24.73	-29.09	-31.53	-31.06	-30.37	-35.06	50.81	52.58	53.73	16.29	18.31	21.01
3890	8.65	8.80	8.39	-24.85	-29.87	-31.89	-30.47	-30.42	-35.41	50.55	52.40	53.61	16.17	18.11	20.85
3900	8.57	8.79	8.35	-25.46	-29.94	-32.59	-31.08	-29.96	-36.01	50.46	52.35	53.56	15.94	17.71	20.63

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
3480	-74.81	-82.17	-83.41	-95.62	-138.25	-76.08	-83.00	-82.18	-96.17	-139.09	-73.25	-81.75	-83.92	-97.19	-138.70
3490	-71.36	-81.19	-82.58	-94.77	-138.60	-74.65	-80.21	-81.76	-96.02	-139.08	-76.44	-81.56	-82.42	-96.56	-138.69
3522	-72.52	-81.42	-83.57	-95.15	-138.86	-69.96	-82.23	-81.88	-96.79	-139.29	-69.95	-82.65	-84.06	-97.17	-138.85
3564	-65.30	-80.94	-83.69	-96.84	-139.43	-64.74	-82.82	-82.28	-97.57	-139.66	-65.16	-84.53	-83.54	-98.10	-139.56
3606	-74.36	-83.63	-84.65	-97.85	-139.77	-72.81	-82.28	-82.93	-97.84	-139.88	-72.75	-83.06	-84.83	-99.16	-139.50
3648	-73.57	-82.59	-84.50	-96.93	-138.22	-76.76	-83.91	-83.21	-99.14	-140.36	-77.76	-84.81	-85.91	-100.50	-138.71
3690	-73.71	-83.76	-88.05	-101.94	-140.52	-75.08	-82.42	-85.87	-100.73	-139.17	-74.77	-84.26	-83.56	-101.76	-139.97
3732	-70.60	-83.98	-86.56	-102.54	-140.28	-69.93	-84.37	-85.78	-103.20	-140.80	-70.86	-82.74	-84.81	-99.06	-138.99
3774	-66.60	-83.86	-85.52	-101.40	-141.18	-64.96	-81.94	-85.63	-101.86	-139.68	-64.91	-80.91	-82.81	-98.41	-139.22
3816	-73.57	-83.64	-85.59	-99.02	-139.53	-71.41	-82.73	-84.27	-100.47	-138.69	-73.85	-81.26	-84.11	-99.47	-138.57
3858	-75.72	-82.60	-86.16	-99.67	-138.18	-75.94	-83.68	-84.87	-100.60	-137.67	-77.70	-82.73	-85.55	-101.99	-137.21
3890	-74.41	-84.88	-86.10	-104.23	-138.55	-76.20	-83.54	-86.35	-102.54	-137.04	-74.04	-85.66	-84.15	-106.73	-137.41
3900	-76.41	-84.99	-89.02	-104.79	-138.76	-75.63	-83.47	-84.92	-102.75	-137.15	-75.00	-84.12	-83.43	-106.58	-137.31

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



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Typical Performance Data

COMPARISON SPURIOUS ORDER	REFERENCE & COMPARISON SPURIOUS @Fcarrier 3490 MHz± (n*Fcomparison) (dBc) NOTE 1			REFERENCE & COMPARISON SPURIOUS @Fcarrier 3690 MHz± (n*Fcomparison) (dBc) NOTE 1			REFERENCE & COMPARISON SPURIOUS @Fcarrier 3890 MHz± (n*Fcomparison) (dBc) NOTE 1		
	-45 °C	+25°C	+85 °C	-45 °C	+25°C	+85 °C	-45 °C	+25°C	+85 °C
n									
-5	-99.89	-101.07	-104.50	-95.64	-97.41	-101.88	-93.92	-95.16	-101.97
-4	-99.30	-99.42	-97.84	-97.00	-96.40	-98.45	-94.96	-92.15	-99.21
-3	-95.30	-93.78	-91.14	-91.68	-91.36	-94.74	-91.74	-89.99	-96.06
-2	-90.56	-89.95	-88.54	-88.76	-89.49	-91.39	-89.03	-89.37	-92.75
-1	-92.82	-88.71	-88.16	-86.05	-86.55	-87.16	-80.14	-80.85	-80.70
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-91.24	-89.55	-86.48	-86.37	-85.75	-87.01	-81.99	-82.19	-81.76
+2	-92.39	-91.26	-89.16	-89.85	-89.28	-92.66	-90.54	-91.23	-93.92
+3	-97.04	-93.73	-92.88	-94.03	-91.88	-95.39	-93.95	-92.32	-99.04
+4	-94.89	-97.43	-96.83	-94.91	-96.82	-98.75	-96.20	-95.14	-102.37
+5	-96.35	-97.67	-101.09	-94.57	-97.44	-101.11	-95.47	-96.67	-107.86

Note 1: Reference & Comparison frequency 20 MHz

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

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