

Frequency Synthesizer

KSN-EDR10952

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS						VCO CURRENT (mA)			PLL CURRENT (mA)		
				(dBc)											
	-40 °C	+25°C	+85 °C	F2			F3			-40 °C	+25°C	+85 °C	-40 °C	+25°C	+85 °C
4586.3	-4.74	-4.30	-4.48	-25.62	-26.77	-29.50	-31.89	-37.22	-36.85	23.45	24.50	25.21	15.44	17.10	19.51
4591.3	-4.69	-4.26	-4.43	-25.46	-26.67	-29.48	-31.55	-37.51	-37.40	23.46	24.51	25.22	15.40	17.11	19.53
4595.3	-4.62	-4.24	-4.39	-25.68	-26.46	-29.45	-31.51	-37.45	-37.72	23.46	24.52	25.24	15.45	17.20	19.63
4596.3	-4.62	-4.23	-4.38	-25.67	-26.43	-29.30	-31.59	-37.49	-37.66	23.46	24.52	25.24	15.45	17.22	19.65
4597.3	-4.61	-4.22	-4.37	-25.62	-26.43	-29.31	-31.75	-37.56	-38.08	23.46	24.53	25.24	15.45	17.23	19.67
4601.3	-4.57	-4.19	-4.34	-25.66	-26.40	-29.25	-32.49	-37.75	-38.26	23.47	24.54	25.25	15.40	17.18	19.63
4606.3	-4.51	-4.14	-4.27	-25.47	-26.38	-28.99	-32.73	-37.99	-38.61	23.47	24.54	25.25	15.45	17.24	19.70

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
4586.3	-74.19	-78.51	-86.30	-116.10	-137.33	-75.62	-80.05	-86.97	-115.60	-136.53	-74.41	-81.15	-87.58	-115.07	-135.43
4591.3	-73.96	-79.57	-86.10	-116.04	-137.34	-73.30	-79.67	-86.95	-115.37	-136.13	-75.76	-82.04	-87.70	-114.99	-135.45
4595.3	-73.95	-81.48	-86.80	-116.02	-136.98	-74.28	-81.04	-87.33	-115.31	-136.25	-75.93	-80.47	-87.97	-115.04	-135.49
4596.3	-72.19	-81.41	-86.27	-116.07	-137.32	-75.12	-80.28	-87.24	-115.47	-136.18	-80.16	-80.83	-87.80	-114.95	-135.48
4597.3	-73.34	-80.39	-86.41	-116.10	-137.26	-71.76	-79.83	-87.59	-115.43	-136.22	-75.58	-80.66	-88.07	-115.01	-135.43
4601.3	-73.35	-81.61	-86.42	-116.08	-137.14	-74.62	-79.91	-87.48	-115.44	-136.27	-74.69	-82.37	-88.02	-114.90	-135.32
4606.3	-73.05	-80.66	-86.63	-116.00	-137.39	-77.35	-80.58	-87.67	-115.40	-136.20	-75.98	-80.69	-88.31	-115.02	-135.44

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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COMPARISON SPURIOUS ORDER n	COMPARISON & REFERENCE SPURIOUS @Fcarrier 4596.52 MHz± (n*Fcomparison) (dBc) NOTE 1		
	-40°C	+25°C	+85°C
-5	-78.53	-78.00	-78.62
-4	-88.88	-87.01	-89.69
-3	-86.00	-84.47	-86.32
-2	-75.44	-74.73	-76.37
-1	-62.32	-60.55	-60.19
0 ^{note 2}	-	-	-
+1	-60.50	-60.85	-60.10
+2	-74.24	-76.08	-76.52
+3	-84.01	-83.17	-83.68
+4	-82.02	-81.72	-81.95
+5	-76.56	-77.08	-77.77

Note 1: Comparison frequency 10 MHz

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

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