

Frequency Synthesizer

SSN-EDR9434

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
3100	0.42	0.10	-0.02	-21.64	-23.54	-28.01	-21.64	-23.54	-28.01	43.87	46.26	47.45	10.15	10.88	12.72

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
3100	-82.59	-99.33	-99.58	-105.39	-139.00	-81.54	-97.24	-98.95	-106.39	-137.50	-83.68	-97.94	-98.13	-104.65	-137.11

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE SPURIOUS @F _{carrier} 3100 MHz± (n*F _{comparison}) (dBc) NOTE 1			COMPARISON SPURIOUS @F _{carrier} 3100 MHz± (n*F _{comparison}) (dBc) NOTE 2		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
	n					
-5	-122.25	-114.22	-117.75	-114.57	-110.09	-111.86
-4	-111.52	-125.54	-110.01	-105.28	-105.48	-103.75
-3	-111.32	-114.53	-110.61	-108.49	-103.98	-106.21
-2	-105.02	-105.27	-103.32	-106.83	-102.36	-105.72
-1	-106.12	-102.29	-105.74	-93.40	-92.39	-91.47
0 note 3	-	-	-	-	-	-
+1	-114.29	-99.25	-97.07	-94.28	-92.47	-90.94
+2	-104.52	-102.91	-101.25	-115.80	-98.78	-96.72
+3	-108.10	-109.08	-104.31	-114.78	-105.88	-107.79
+4	-104.61	-104.96	-104.16	-104.67	-103.57	-100.92
+5	-109.78	-106.23	-107.29	-112.30	-115.58	-110.82

Note 1: Reference frequency 20 MHz.

Note 2: Comparison frequency 10 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.
 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

