

Frequency Synthesizer

KSN-EDR10245SA

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
5200	-2.86	-3.58	-4.78	-24.43	-25.55	-22.69	-24.43	-25.55	-22.69	45.93	47.19	47.77	14.79	17.05	20.04

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
5200	-78.34	-87.99	-91.34	-102.24	-125.43	-84.94	-90.25	-94.30	-103.05	-128.02	-83.55	-93.47	-94.45	-104.13	-129.74

REFERENCE & COMPARISON SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 5200MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 5200 MHz± (n*Fcomparison) (dBc) NOTE 2		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
	n					
-5	-78.59	-80.98	-87.65	-92.38	-97.3	-109.57
-4	-82.02	-84.58	-90.12	-79.94	-82.94	-88.42
-3	-82.21	-86.69	-93.12	-92.76	-96.02	-102.38
-2	-80.55	-83.85	-88.4	-87.12	-106.7	-95.41
-1	-88.32	-105.4	-96.34	-91.81	-96.9	-91.45
0 note 3	-	-	-	-	-	-
+1	-89.44	-93.3	-94.01	-87.67	-87.94	-88.94
+2	-87.89	-88.09	-89.69	-85.99	-87.84	-92.65
+3	-111.45	-99.43	-107.47	-87.28	-89.05	-95.04
+4	-85.21	-88.63	-92.08	-85.65	-86.91	-92.93
+5	-101.32	-97.6	-105.66	-81.30	-83.08	-89.67

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.
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