

INTELLIGENT INTERACTIVE SYNTHESIZER

CONNECTORIZED MODEL: KLFSW110250-100

WIDE BANDWIDTH

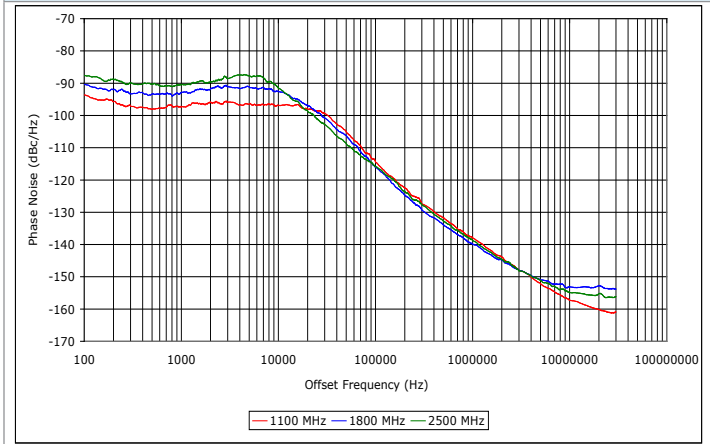
1100 - 2500 MHz

FEATURES:

- ▶ Exceptionally Low Phase Noise
- ▶ Interactive Communication
- ▶ Standard Programming Interface
- ▶ Ultra Wide Tuning Range
- ▶ Lead Free - RoHS Compliant
- ▶ Buffered Output



Phase Noise



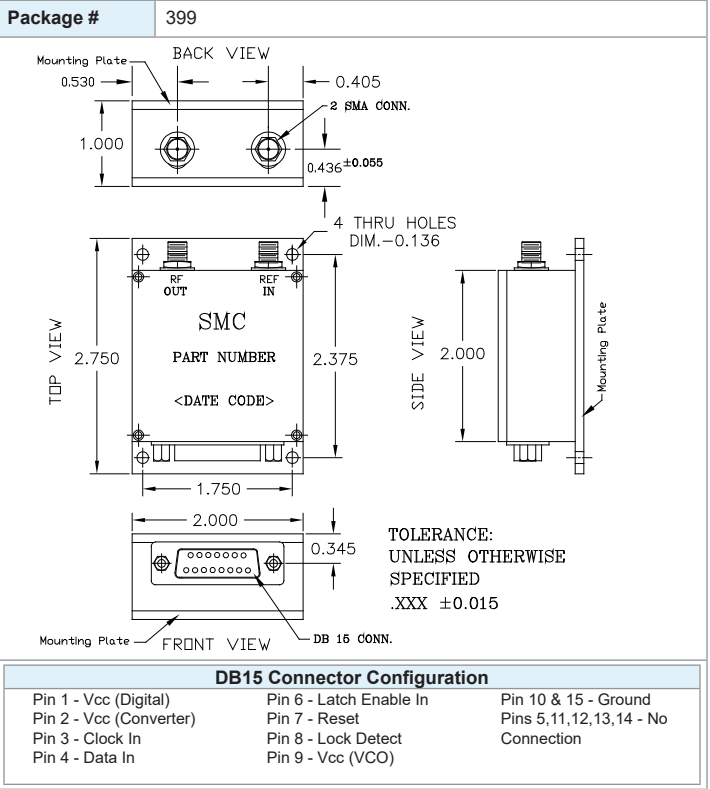
SPECIFICATIONS (Rev. A 03/25/25)

Frequency	1100 - 2500 MHz		
Step Size	1 MHz		
Reference Input Frequency	10 MHz ¹		
Reference Input Voltage	1 V p-p to 3.3 V p-p		
Bias Voltage	Vcc	V (Vdc)	I (mA Max.)
	Digital	+5	50
	VCO	+5	35
	Converter	+5	55
Output Power	+5 dBm (Min.)		
Spurious Suppression	70 dB (Typ.)		
Harmonic Suppression	20 dB (Typ.)		
Settling Time	10 mSec (Typ.) ²		
Output Impedance	50 Ohms (Nom.)		
Lock Detect Indicator	CMOS 3.3 V		
Typical Phase Noise	Offset	Phase Noise	
	@ 1 kHz	-92 dbc/Hz	
	@ 10 kHz	-92 dbc/Hz	
	@ 100 kHz	-115 dbc/Hz	
Operating Temperature Range	-40 to +85 °C		
Programming	See Application Note: AN7100		

¹ Reference input frequency is programmable (see AN7100) in multiples of the step size, 10 MHz is the default setting. 150 MHz (Max.)
² From the rising edge of LE to stable lock detect

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage (Digital)	+5.25 V
Bias Voltage (VCO)	+5.5 V
Bias Voltage (Converter)	+8 V
DC Voltage Applied to RF Out	±25 V

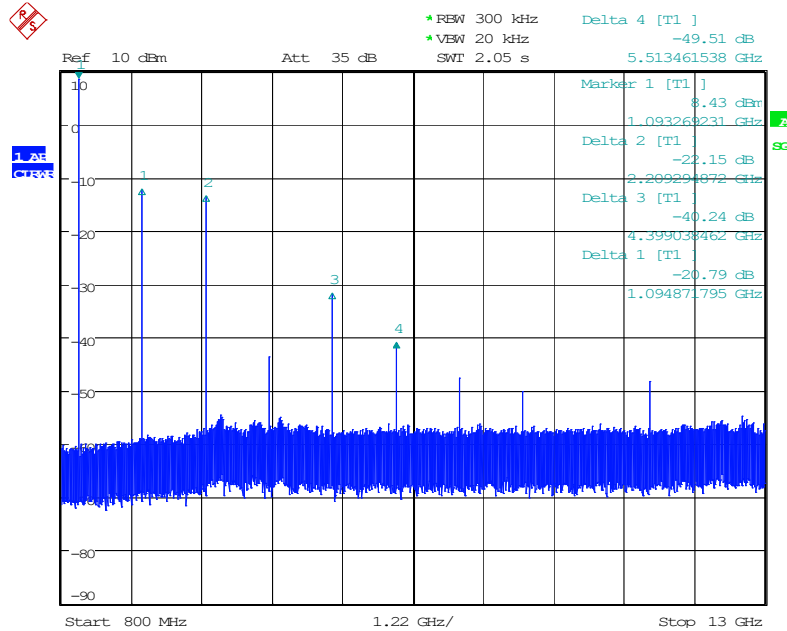


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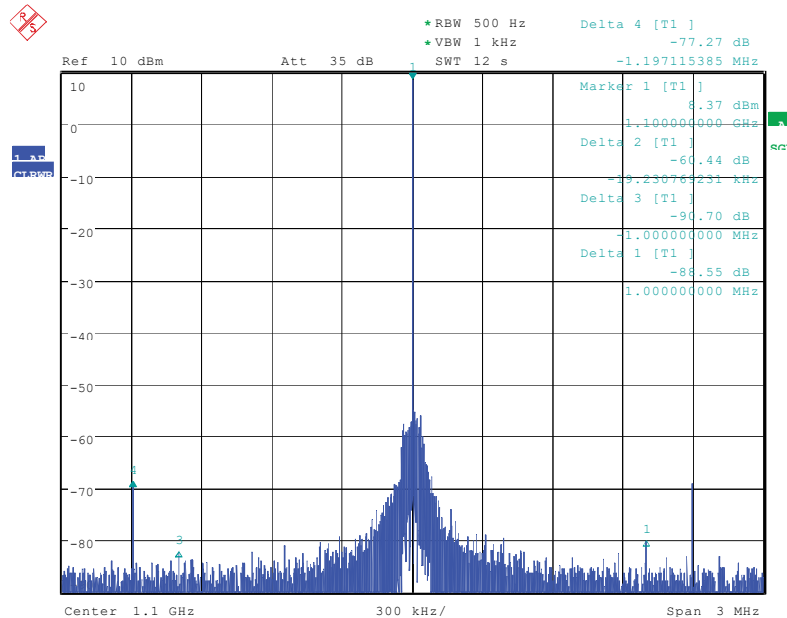
WIDE BANDWIDTH

1100 - 2500 MHz

HARMONIC SUPPRESSION



REFERENCE SIDEBAND SUPPRESSION



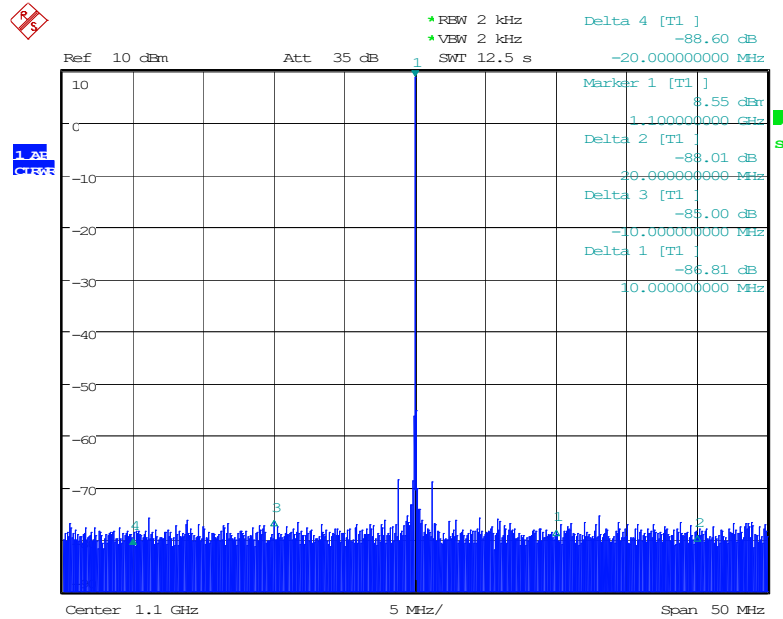
PERFORMANCE PLOTS

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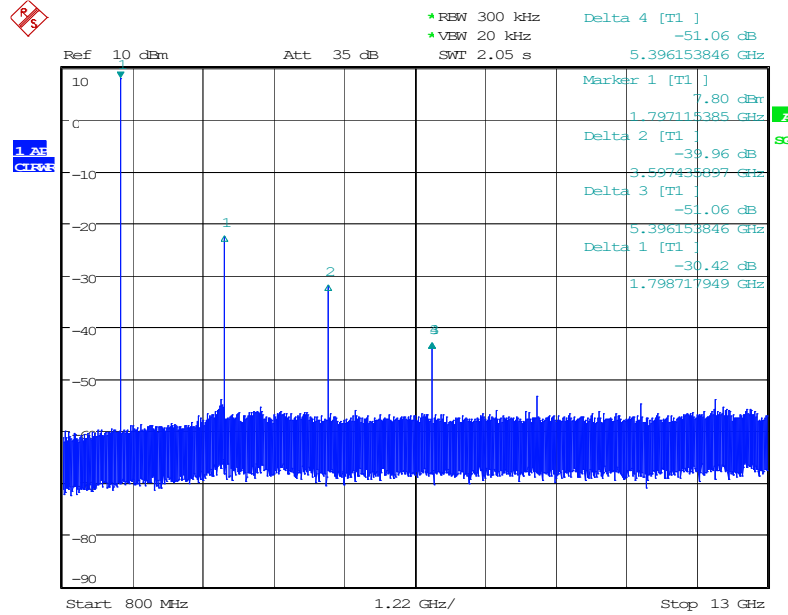
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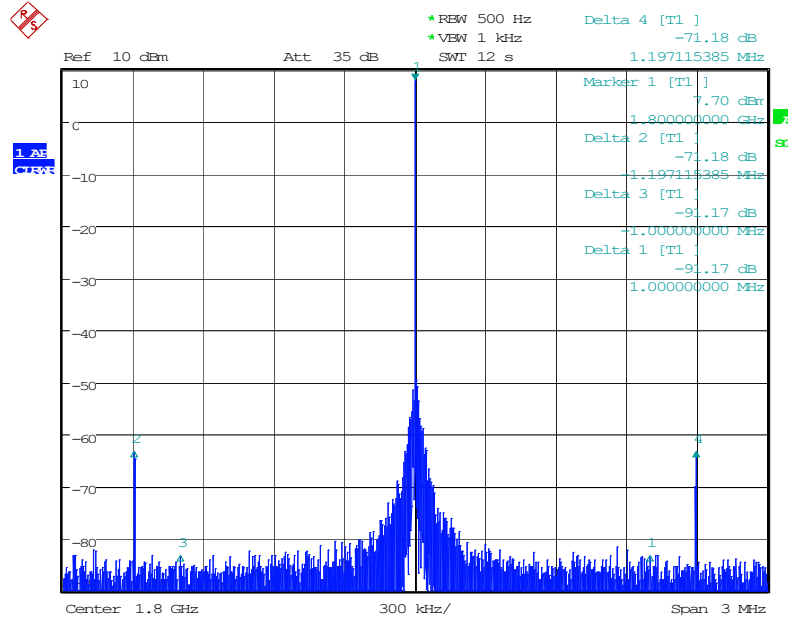
1100 - 2500 MHz

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REFERENCE SIDEBAND SUPPRESSION

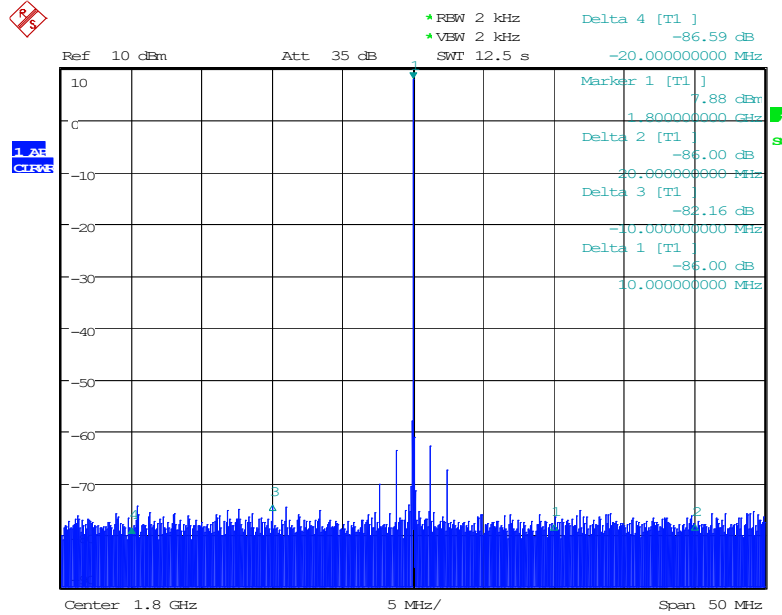


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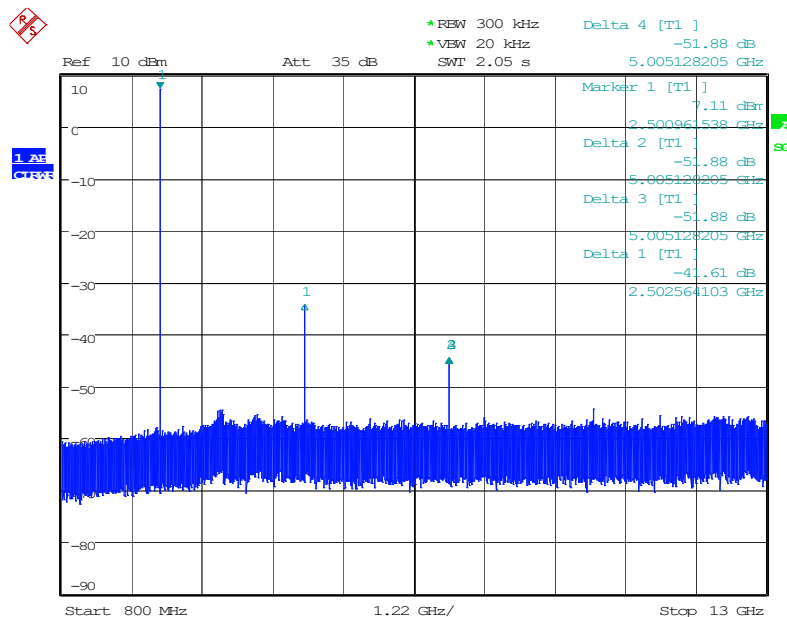
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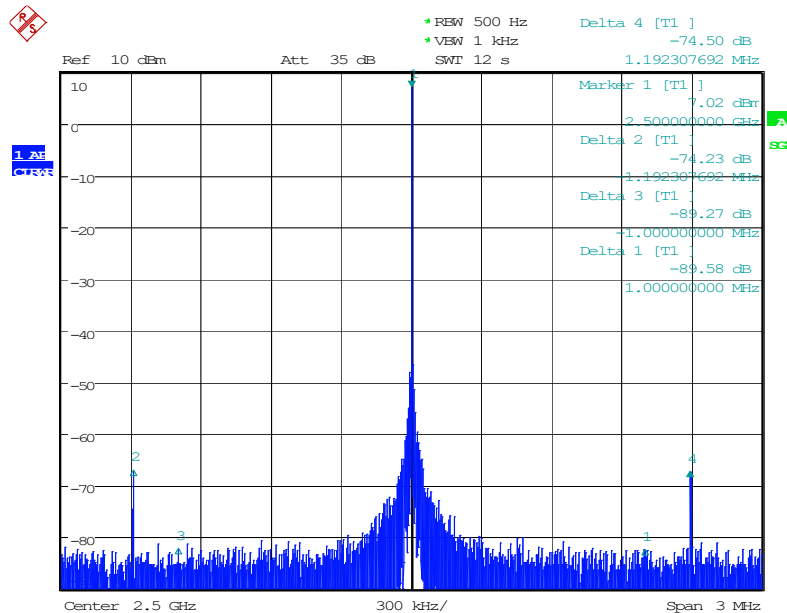
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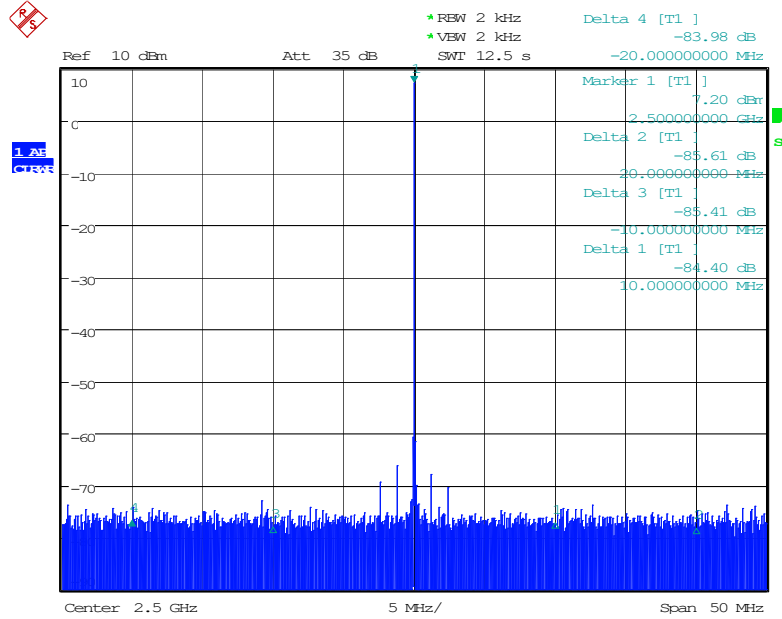
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