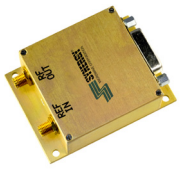
INTELLIGENT INTERACTIVE SYNTHESIZER
CONNECTORIZED MODEL: KFSW200400-100

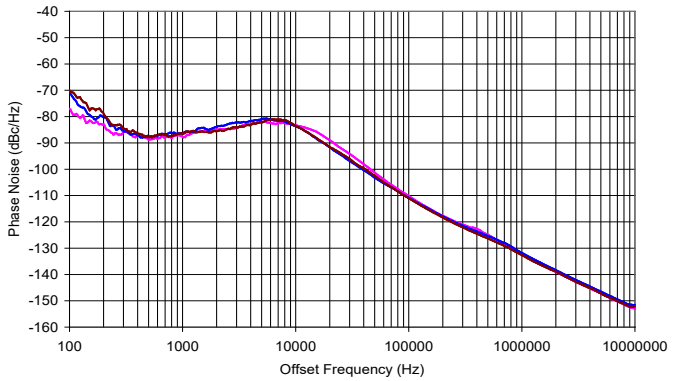
WIDE BANDWIDTH — 2000 - 4000 MHz

FEATURES:

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



Phase Noise

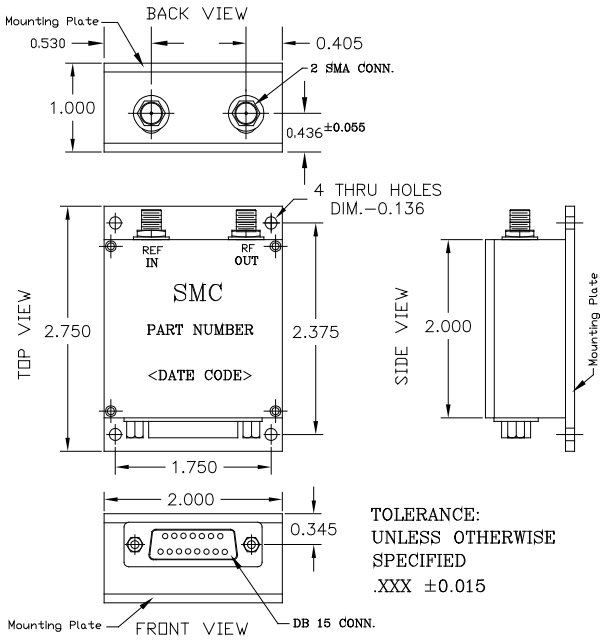


SPECIFICATIONS

Frequency	2000 - 4000 MHz
Step Size	1000 kHz
Reference Input Frequency	10 MHz [1]
Reference Input Voltage	1.0 V p-p to 3.3 V p-p
Bias Voltage	Vcc / V (Vdc) / I (mA Max.): Digital +5 / 15; VCO +5 / 50; Tune +18 / 10
Output Power	-3 dBm (Min.)
Spurious Suppression	80 dB (Typ.)
Harmonic Suppression	10 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 / -85 dBc/Hz; @ 10 kHz / -83 dBc/Hz; @ 100 kHz / -110 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 factory default setting. 150 MHz (Max.)*
[2] *From the rising edge of LE to stable lock detect*

Package # 337



Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 ºC
Bias Voltage (Digital)	+5.25 V
Bias Voltage (Tune)	+20 V
Bias Voltage (VCO)	+5.5 V
DC Voltage Applied to RF Out	±25 V

DB15 Female Connector Configuration

Pin 1 - Vcc (Digital)	Pin 5 - Error Flag	Pin 10, 15 - Ground
Pin 2 - Vcc (Tune)	Pin 6 - Latch Enable	Pin 7, 11 to 14 - NC
Pin 3 - Clock In	Pin 8 - Lock Detect	
Pin 4 - Data In	Pin 9 - Vcc (VCO)	NC - No Connection

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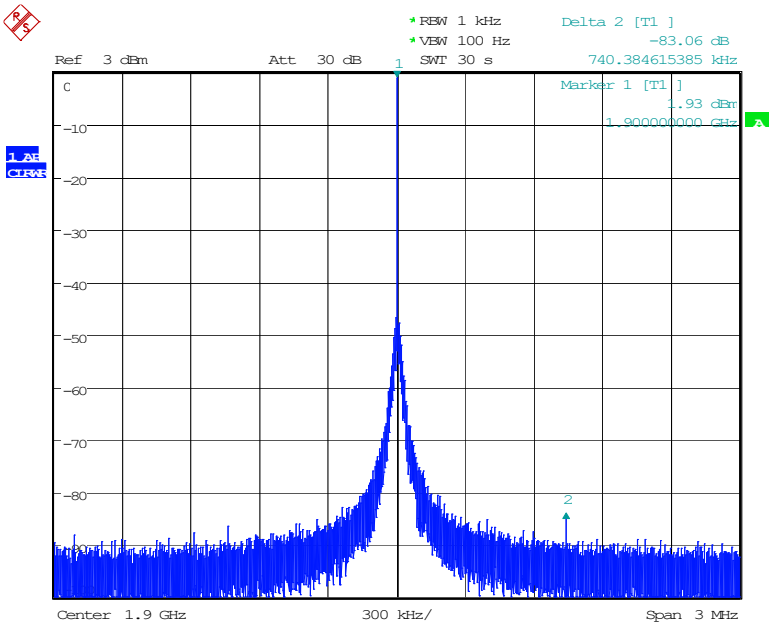
INTELLIGENT INTERACTIVE SYNTHESIZER
CONNECTORIZED MODEL: KFSW200400-100

WIDE BANDWIDTH

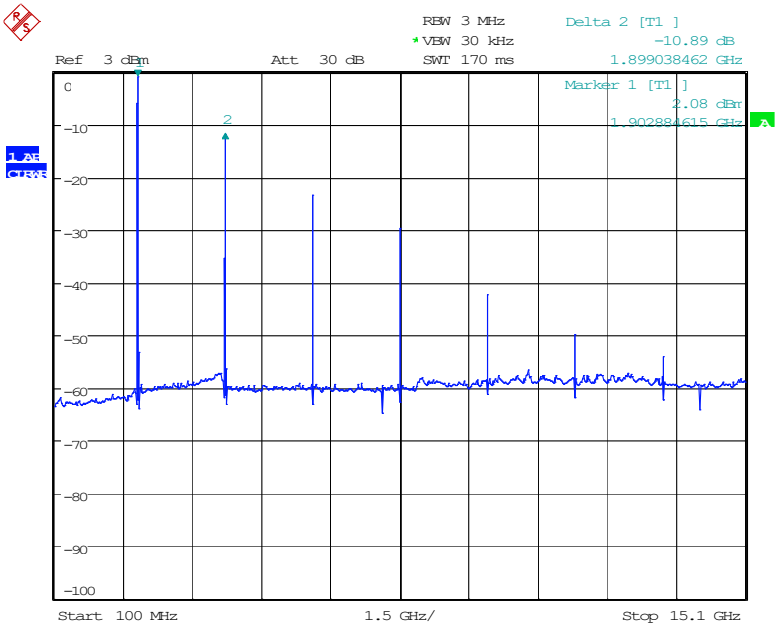
2000 - 4000 MHz

PERFORMANCE PLOTS

REFERENCE SIDEBAND SUPPRESSION



TYPICAL HARMONIC REJECTION



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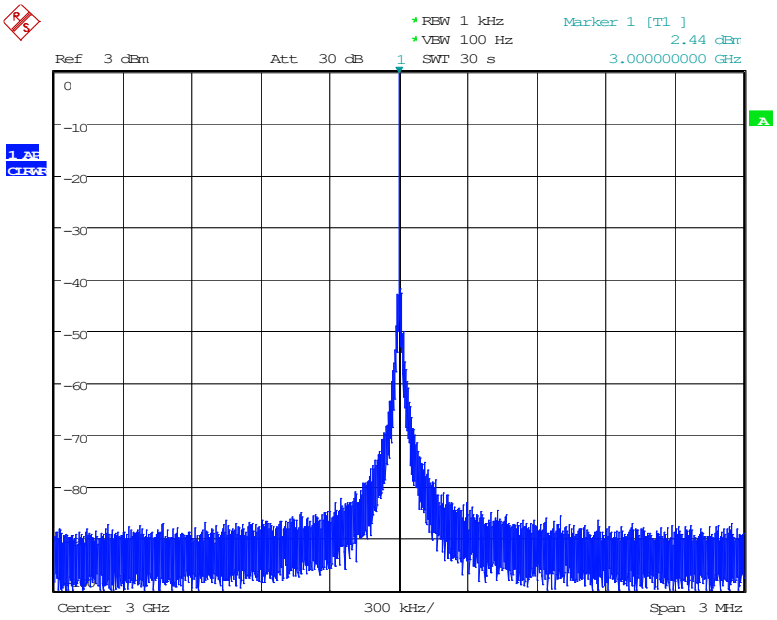
INTELLIGENT INTERACTIVE SYNTHESIZER
CONNECTORIZED MODEL: KFSW200400-100

WIDE BANDWIDTH

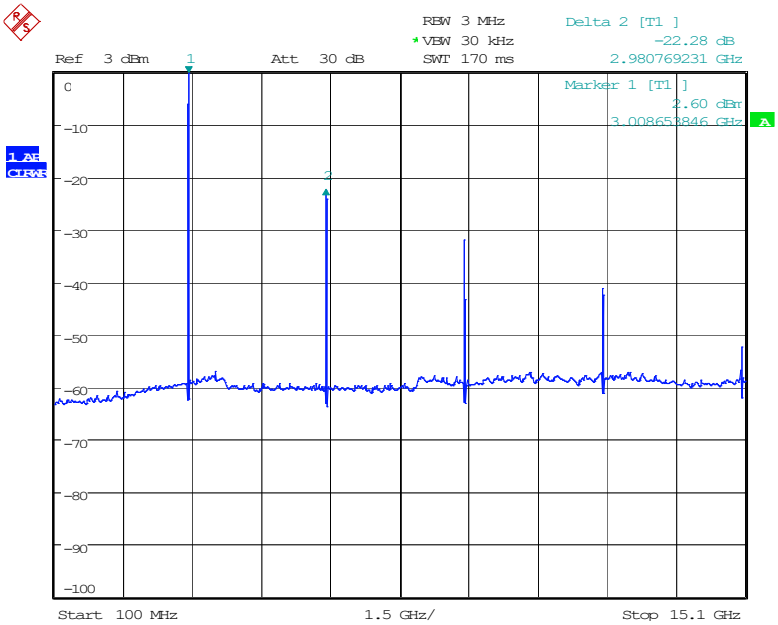
2000 - 4000 MHz

PERFORMANCE PLOTS

REFERENCE SIDEBAND SUPPRESSION



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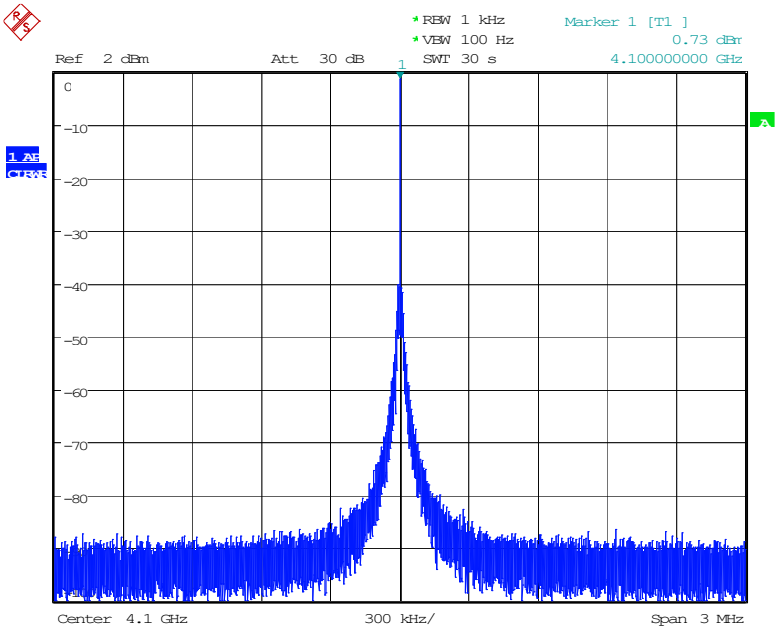
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WIDE BANDWIDTH

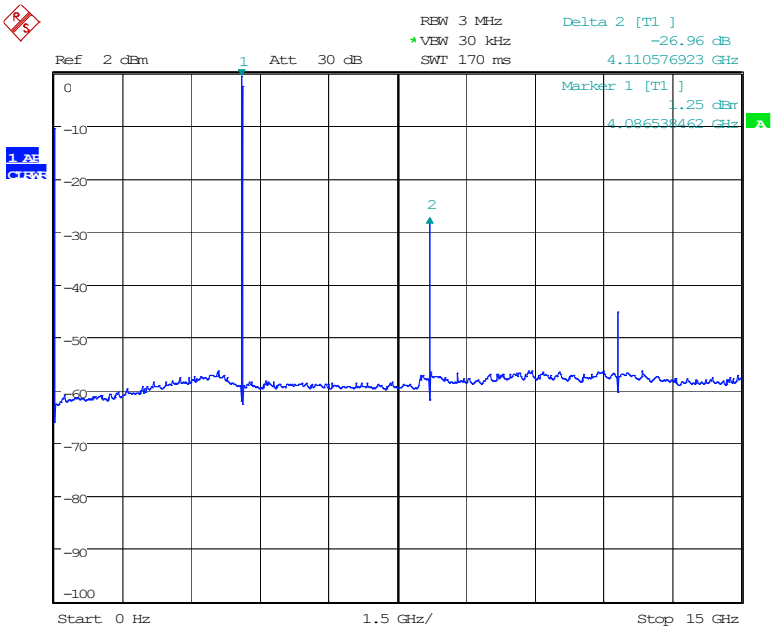
2000 - 4000 MHz

PERFORMANCE PLOTS

REFERENCE SIDEBAND SUPPRESSION



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