

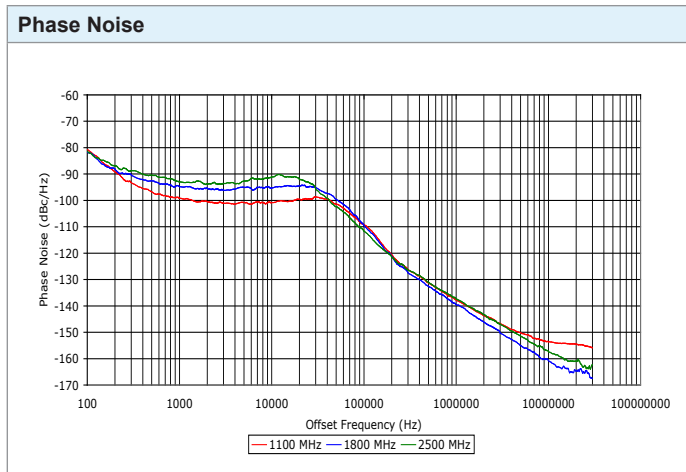
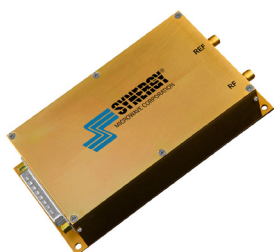
# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMTS2500-110250-10

WIDE BANDWIDTH

1100 - 2500 MHZ

## FEATURES:

- ▶ Over an octave bandwidth tuning
- ▶ Small step size resolution
- ▶ Outstanding spectral purity
- ▶ High spurious rejection
- ▶ Fast lock settling time
- ▶ Easy programmable format
- ▶ Patented Rel-Pro® Technology
- ▶ Buffered Output



## SPECIFICATIONS (Rev. B 08/14/13)

Output Frequency	1100 - 2500 MHz
Bandwidth	1400 MHz
External Reference <sup>1</sup>	10 MHz
External Reference Input	1 V p-p to 3.3 V p-p
Step Size	Programmable to 1 Hz
<b>Bias Voltage</b>	
VCC1	+12 VDC
VCC2	+12 VDC
VCC3	+12 VDC
<b>Bias Power Consumption</b>	
Bias Power Consumption	3 Watts (Max.)
Output Power	+9 dBm (Min.)
Spurious Suppression	55 dB (Typ.)
Harmonic Suppression	15 dB (Typ.)
<b>Patent : <a href="http://www.synergymwave.com/patents">http://www.synergymwave.com/patents</a></b>	

<b>Typical Phase Noise</b>	<b>Offset</b>	<b>dBc/Hz.</b>
	1 kHz	-93
	10 kHz	-95
<b>Settling Time<sup>2</sup></b>	Within 1 kHz	<22 mSec
	Within 10 Hz	<36 mSec
	<b>Output Impedance</b>	
<b>Operating Temperature Range</b>		-20 to +70 °C
<b>Non-Operating Temperature Range</b>		-40 to +85 °C
<b>Programming</b>		See Application Note: AN7400
<b>Programming Bus<sup>3</sup></b>		Specify SPI or RS-232

## Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage (+12 V)	+15 V
DC Voltage Applied to RF Out	± 25 V

<sup>1</sup> Reference input frequency can be factory programmed for requested common reference frequencies from 10 - 25 MHz. Unless otherwise specified, the reference frequency is factory programmed for 10 MHz.

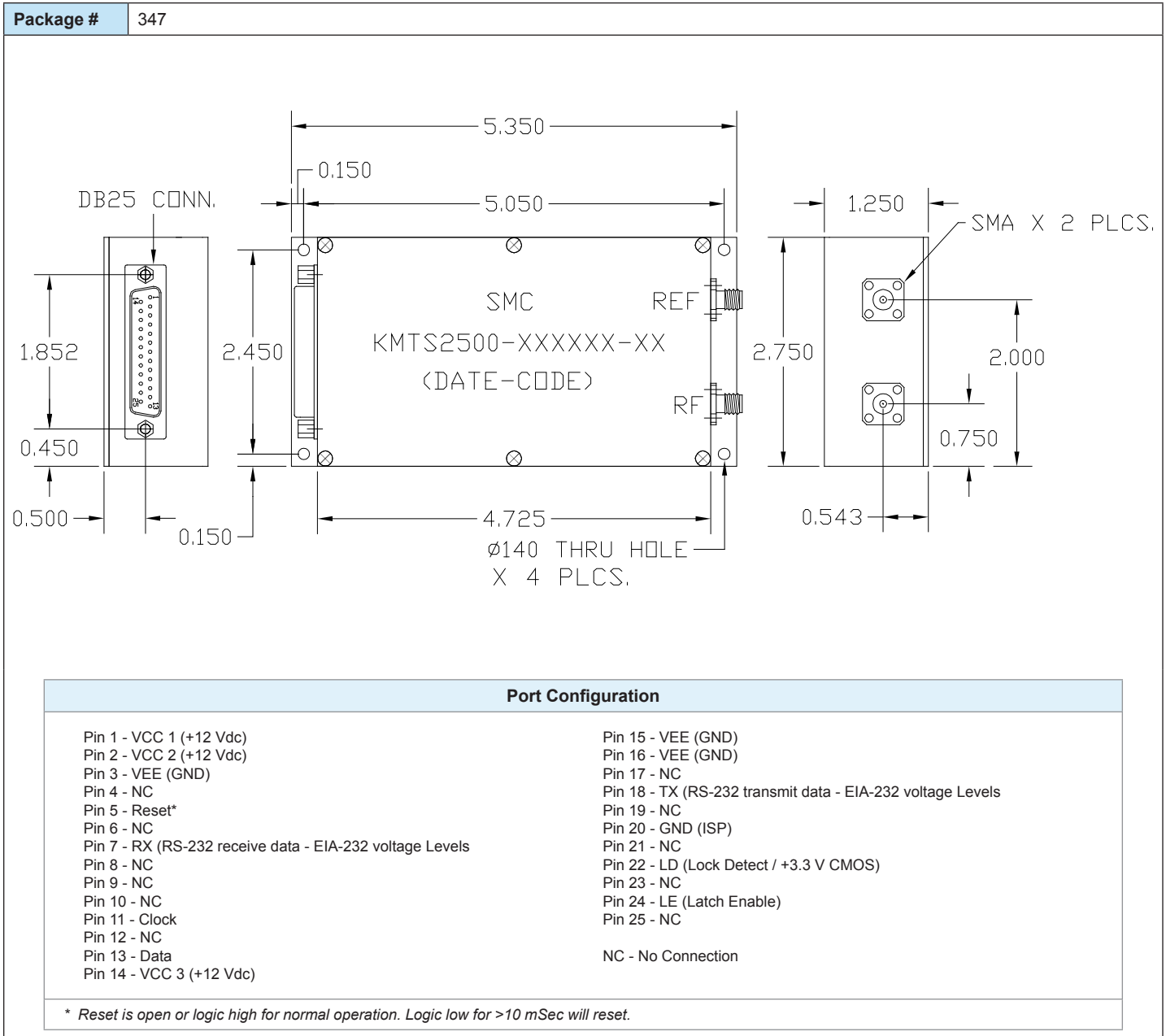
<sup>2</sup> Time between latch enable (LE) high (after user command) and final output frequency.

<sup>3</sup> Default bus (if unspecified) is SPI.

# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMTS2500-110250-10

WIDE BANDWIDTH

1100 - 2500 MHZ

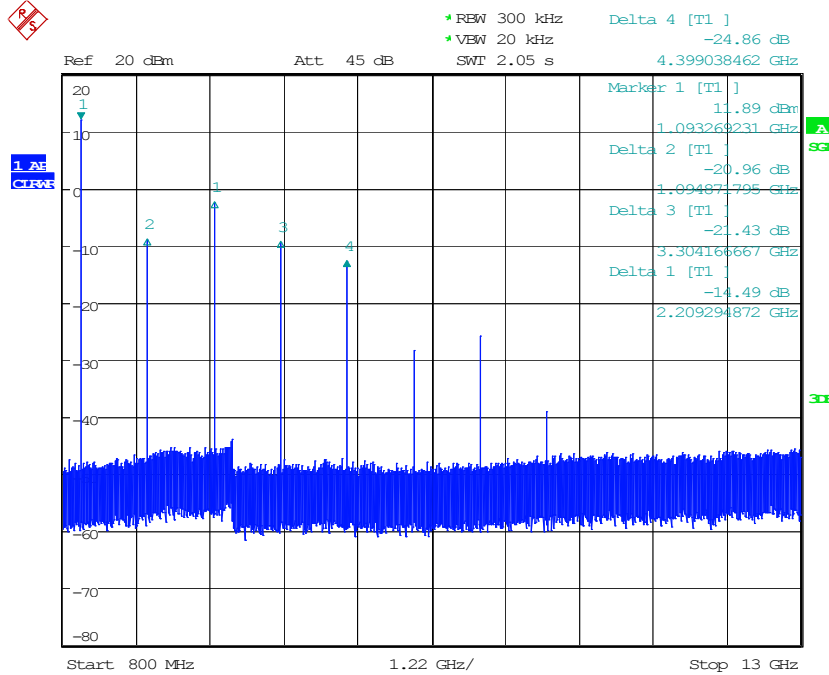


# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMETS2500-110250-10

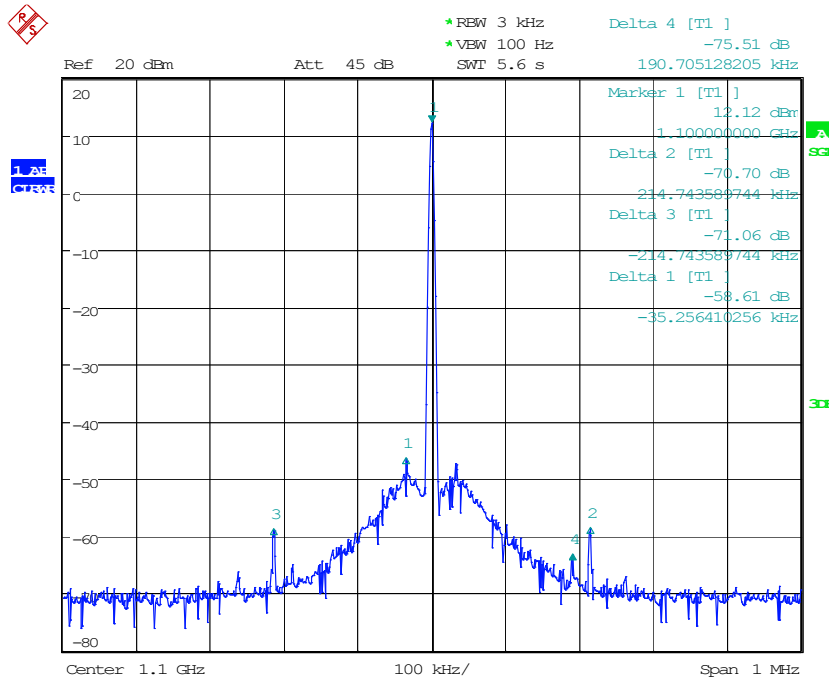
WIDE BANDWIDTH

1100 - 2500 MHZ

HARMONIC SUPPRESSION



REFERENCE SIDEBAND SUPPRESSION



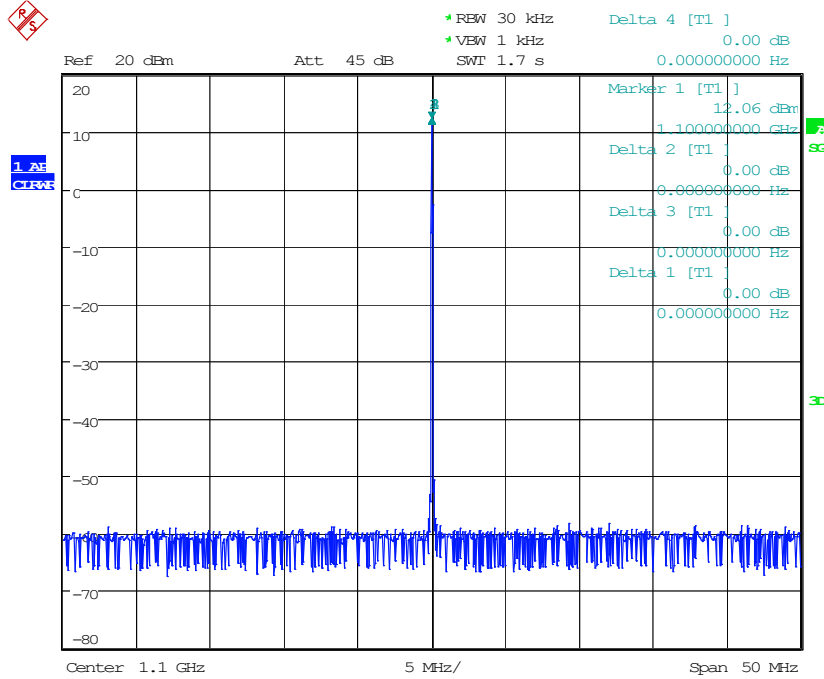
PERFORMANCE PLOTS

# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMETS2500-110250-10

WIDE BANDWIDTH

1100 - 2500 MHZ

REFERENCE SIDEBAND SUPPRESSION



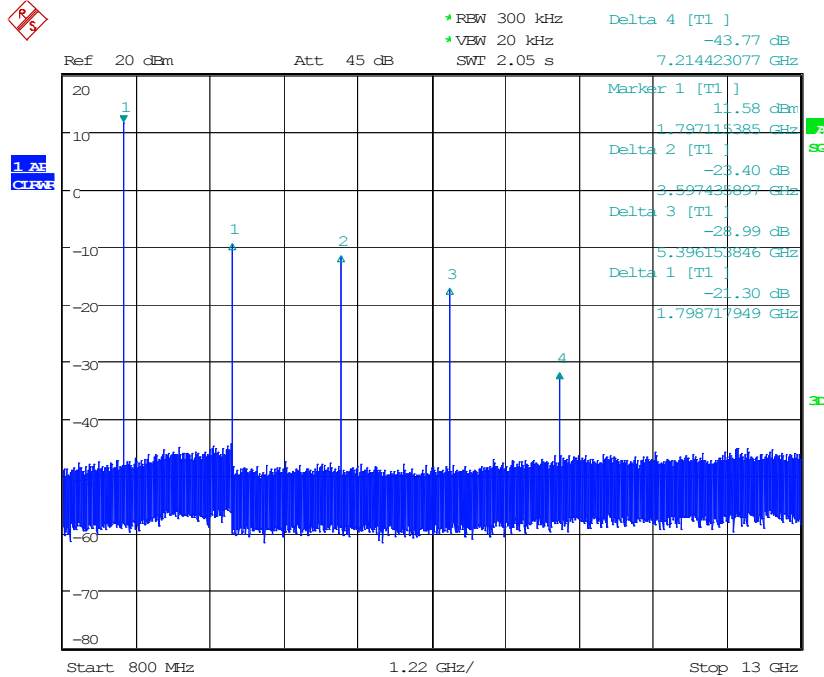
PERFORMANCE PLOTS

# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMETS2500-110250-10

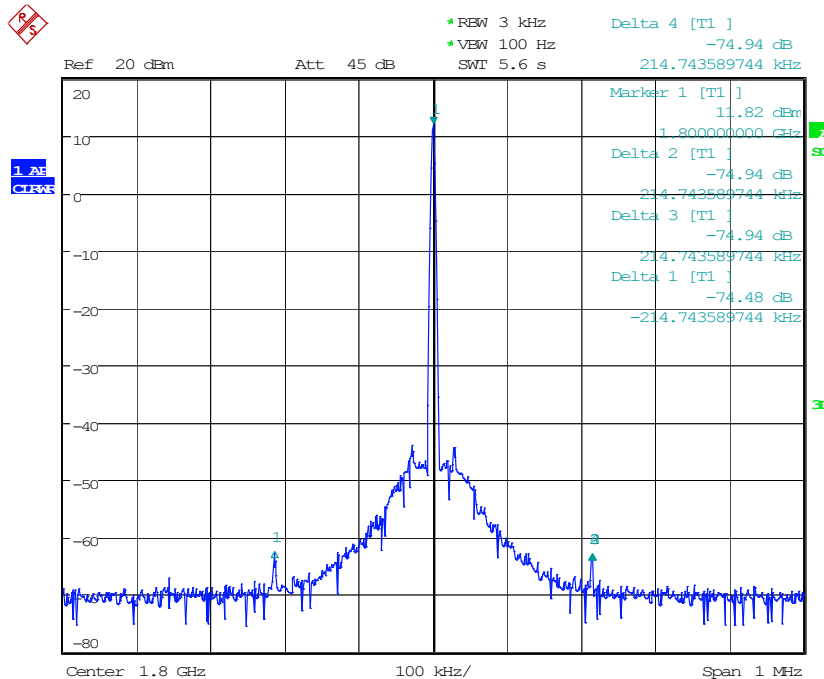
WIDE BANDWIDTH

1100 - 2500 MHZ

HARMONIC SUPPRESSION



REFERENCE SIDEBAND SUPPRESSION



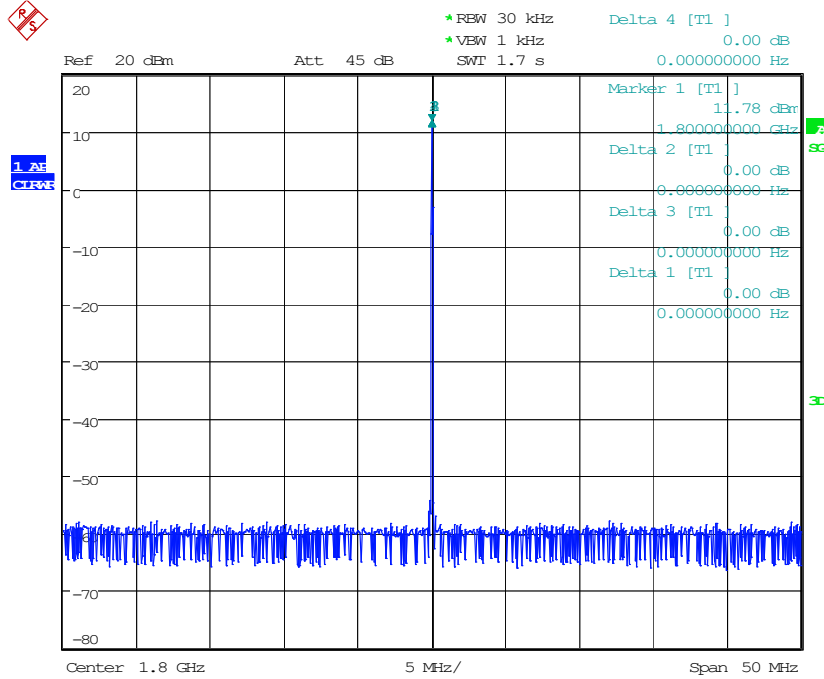
PERFORMANCE PLOTS

# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMTS2500-110250-10

WIDE BANDWIDTH

1100 - 2500 MHz

REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS

Copyright © Synergy Microwave Corporation  
201 McLean Boulevard • Paterson, New Jersey 07504 USA  
Tel: (973) 881-8800 • Fax: (973) 881-8361  
E-Mail: sales@synergymwave.com • Website: <http://www.synergymwave.com>

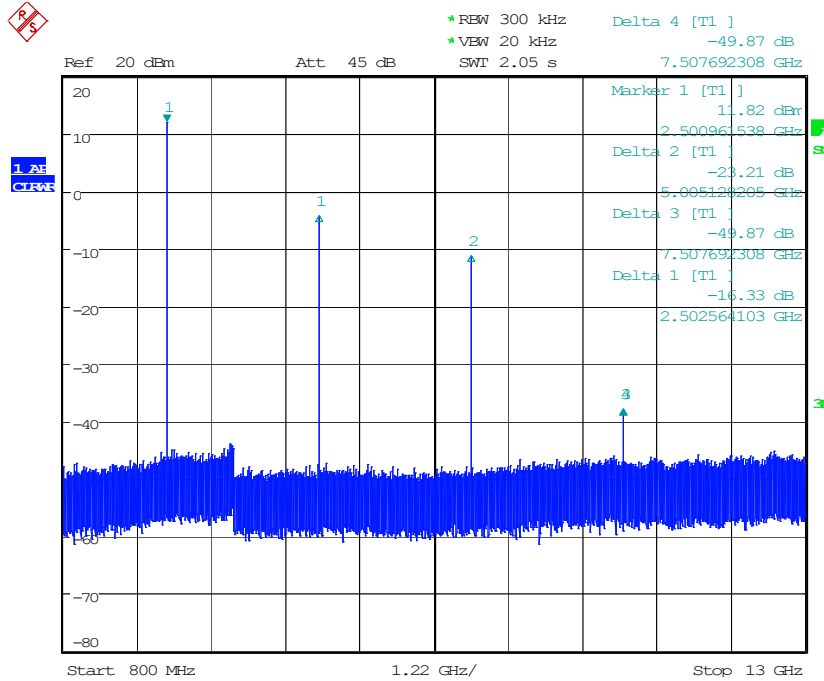


# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMETS2500-110250-10

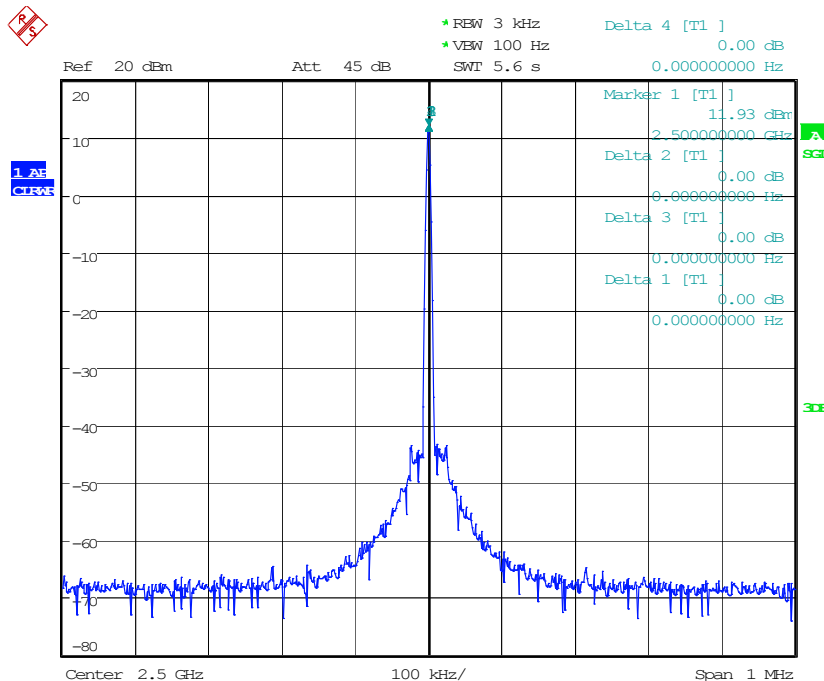
WIDE BANDWIDTH

1100 - 2500 MHZ

HARMONIC SUPPRESSION



REFERENCE SIDEBAND SUPPRESSION



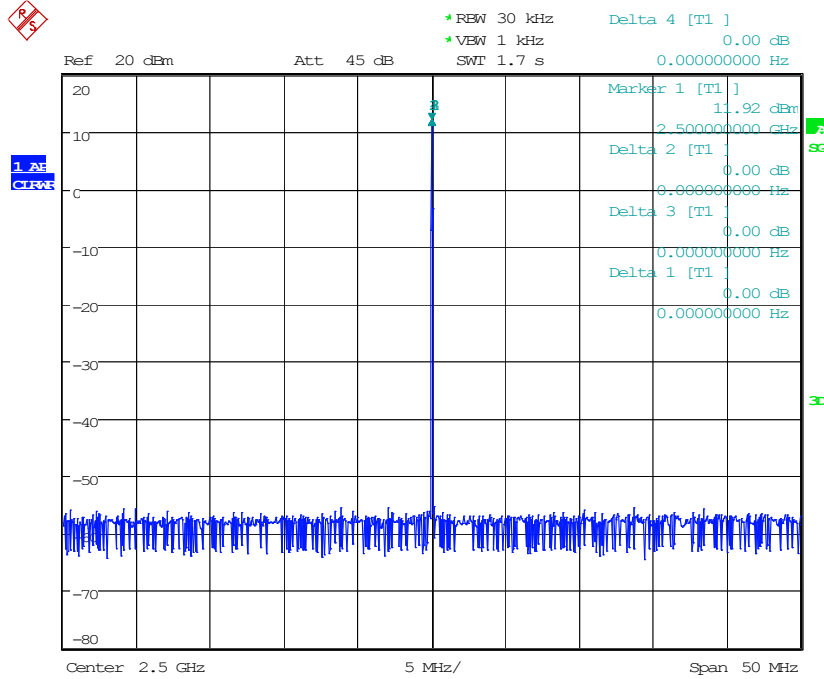
PERFORMANCE PLOTS

# INTELLIGENT INTERACTIVE SYNTHESIZER CONNECTORIZED MODEL: KMETS2500-110250-10

WIDE BANDWIDTH

1100 - 2500 MHZ

REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS

Copyright © Synergy Microwave Corporation  
201 McLean Boulevard • Paterson, New Jersey 07504 USA  
Tel: (973) 881-8800 • Fax: (973) 881-8361  
E-Mail: sales@synergymwave.com • Website: <http://www.synergymwave.com>

