

# SMS-CX

## X-BAND SYNTHESIZER

### FEATURES

- X-Band Frequency Synthesizer
- Ultra Low Phase Noise (10 GHz):
  - 90 dBc/Hz @ 100 Hz
  - 115 dBc/Hz @ 10 kHz
  - 120 dBc/Hz @ 100 kHz
- Up to 500 MHz Bandwidth
- Fast < 25  $\mu$ S Switch Time
- Compact Housing: 3.25" x 3.25" x 0.70"

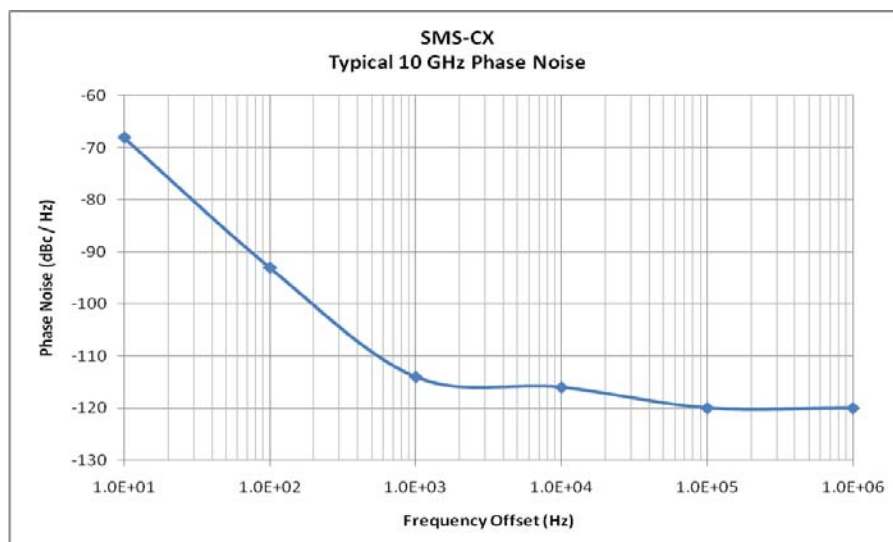


### APPLICATIONS

- **Radar Systems**
- EW / SIGINT
- Communication Systems
- Instrumentation or Embedded Application

### DESCRIPTION

Spinnaker Microwave's SMS-CX series synthesizers offer DRO equivalent phase noise performance with 500 MHz of fast tuning bandwidth at frequency outputs from 8-20 GHz. Design advantages include ultra fast locking speeds (< 25  $\mu$ s), excellent spurious / harmonic rejection, and low power consumption. The durable and compact SMS-CX synthesizer (measuring 3.25" x 3.25" x 0.70") is the perfect, cost-effective solution for the most demanding military and commercial applications.



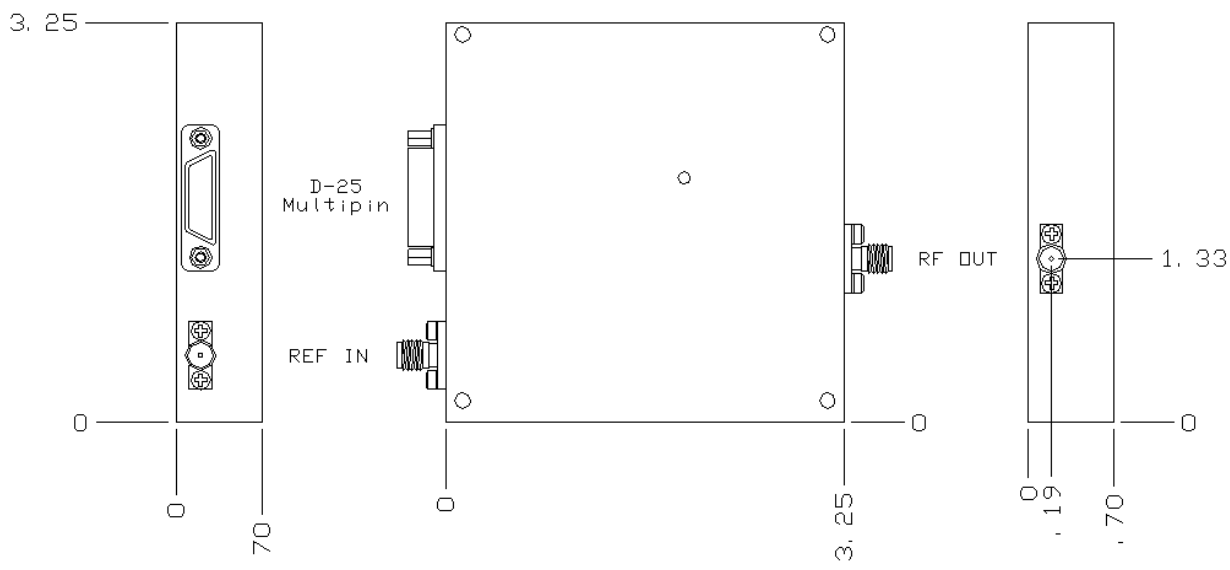
# SMS-CX

## X-BAND SYNTHESIZER

Parameter	Value	Options
Frequency Center	8 GHz – 20 GHz	-
Frequency Bandwidth	500 MHz	4 GHz
Frequency Resolution (Min Step)	10 MHz	1 kHz
External Reference	100 MHz @ 0 dBm	Internal
Spurious Rejection	< -60 dBc	-
Harmonic Rejection	30 dBc	50 dBc
Switching Time	< 25 $\mu$ s	< 1 $\mu$ s
Phase Noise @ 100 Hz (10 GHz)	$\leq$ -90 dBc / Hz	-
Phase Noise @ 1 kHz (10 GHz)	$\leq$ -115 dBc / Hz	-
Phase Noise @ 100 kHz (10 GHz)	$\leq$ -120 dBc / Hz	-
DC Bias / Power Consumption	+5 V, +15 V @ 8 W	-
Programming Mode	LVTTL Parallel or Serial	-
Temperature Range	-20°C to +75°C	-54°C to +80°C
Housing (L x W x H)	(3.25" x 3.25" x 0.70")	Custom

\* Custom options available – please contact factory for more information.

### OUTLINE



Certificate # A2498US