

# Ultra Wide Band Microwave Synthesizer

## 50MHz to 6000MHz

### Surface Mount Model : S $\mu$ 30-602-102(V)-IR

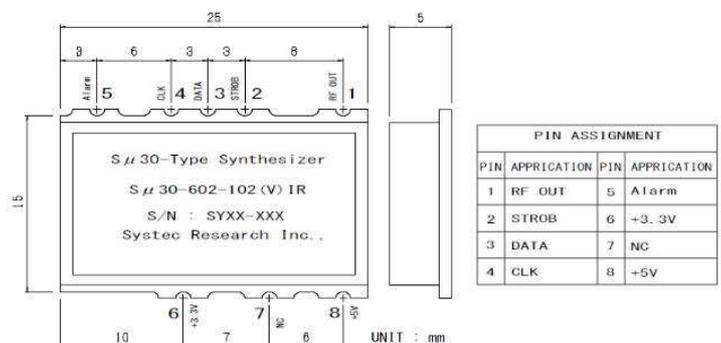
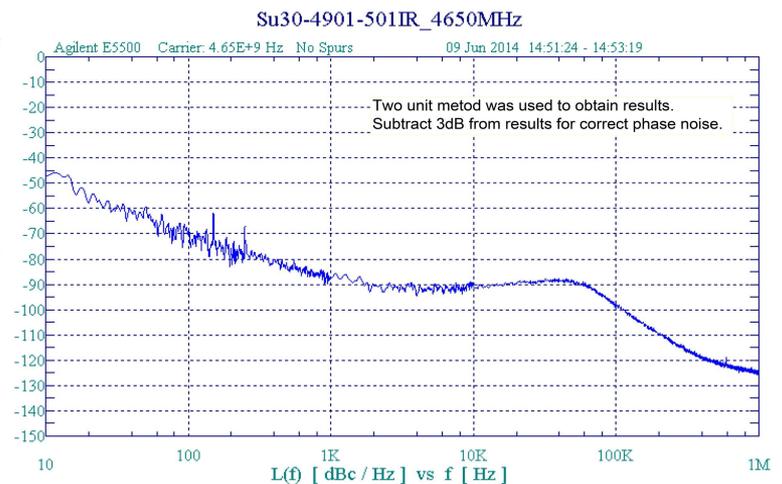
#### Features

- \* Wide Frequency Range : 50 ~ 6000MHz
- \* Compact SMD : 15 x 25 x 5 mm
- \* Internal Reference : 20MHz TCXO
- \* Low Phase Noise,  $f_c=4\text{GHz}$  : -90dBc/Hz @ 10KHz
- \* Bias Voltage : +5V, +3.3V
- \* Lead Free : RoHS Compliant



#### Typical Performance

Operating Frequency Range	50 ~ 6000MHz <sup>(1)</sup>
Step Size	10KHz ~ 1MHz <sup>(1)</sup>
Output Power	+3dBm
Phase Noise at 6GHz Step=1MHz	-90dBc/Hz @ 10KHz -100dBc/Hz @ 100KHz
Spurious, Harmonics Non-Harmonics	-15dBc -65dBc
Frequency Stability -30 ~ +70°C	±1ppm <sup>(2)</sup>
Frequency Select	3-wires, Serial Data. <sup>(3)</sup> Clock & Strobe
Un-Lock Alarm	Lock: ≥ 2.5V Un-Lock: ≤ 0.5V
DC Bias	+5V, 300mA Max +3.3V, 100mA Max
Operating Temp. Range	-35 ~ +85°C



#### Note

- (1) The Operating frequency range and the step size can be selected by customers.
- (2) The Operation by External reference, 10~100MHz is available.
- (3) For customer's programming, the Timing Chart and Data Format will be provided.

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