# **Frequency Synthesizer**



# S010G010GA

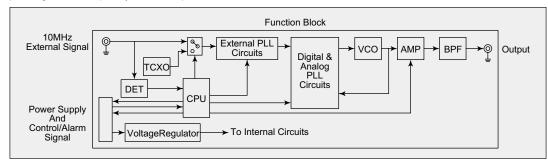
# Main Application

- Local Oscillator of Microwave Equipment
- Reference Signal of Radar System or Measurement Equipment

### Features

- Best Suited for Local Oscillator with Low Phase Noise and Low Spurious
- Built-in PLL Circuit for Synchronizing to 10MHz External Signal RoHS Compliant
- TCXO is Active in case of No External Reference Signal
- Corresponding to the Frequency of 4GHz up to 10GHz





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#### Specifications

Item Model		S010G010GA		
Output Frequency (GHz)		A specified frequency from 4GHz to 10GHz		
Standard Frequency (GHz)		4, 5, 6, 7, 8, 9, 10 (less than relative bandwidth of 5 %) <sup>*1</sup>		
Frequency Resolution (MHz)		1		
Frequency Setting		3-wire Serial Interface		
Frequency Stability		Depends on External Signal		
		(Internal TCXO Stability) Max.±3×10 <sup>-6</sup>		
Output Level (dBm)		10±2dB		
Spurious Harmonics (dBc)		Max. –30		
Spurious Non-harmonics (dBc)		Max. –60		
Phase Noise (dBc/Hz)		at 4GHz	at 7GHz	at 10GHz
	1kHz offset	Max. –70	Max. –67	Max. –65
	10kHz offset	Max. –95	Max. –94	Max. –92
	100kHz offset	Max. –100	Max. –110	Max. –95
	1MHz offset	Max. –115	Max. –110	Max. –107
Interface	Output	SMA-F		
	External Reference Input	SMB-M		
	Power Supply	DF11-12DP-2DS (52) (manufactured by Hirose Electric Co., LTD.)		
Power Supply Voltage (V)		DC+12V±5%		
Current Consumption (A)		Max. 0.65		
Operating Temperature Range (°C)		-10 to +60		
Dimensions (mm)		60 (Width) ×110 (Length) ×22 (Height) (Except for protruding parts)		

Specifications described in this brochure are subject to change without notice for improvement.

The above specifications are standard for this NDK product. Custom-made specifications such as frequency and other specifications are also available. Please contact NDK sales with your enquiries.

\*1 Model code depends on the output frequency.

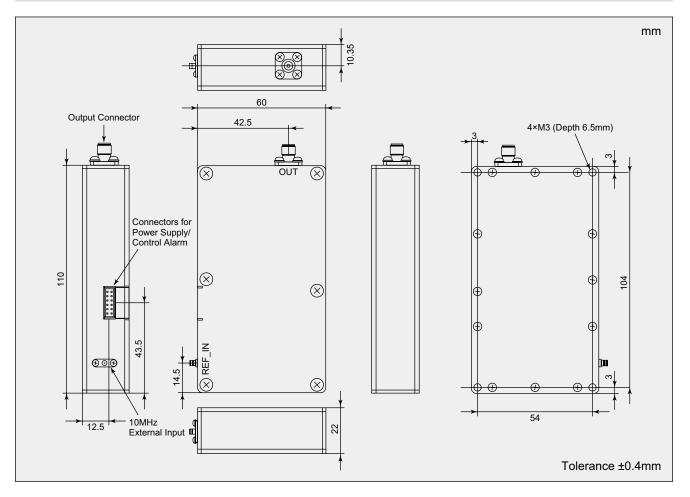
Output Frequency (GHz)	Model	
4 to 4.1	S4R0G4R1GA	
5 to 5.1	S5R0G5R1GA	
6 to 6.1	S6R0G6R1GA	
7 to 7.2	S7R0G7R2GA	
8 to 8.2	S8R0G8R2GA	
9 to 9.2	S9R0G9R2GA	
10 to 10.4	S010G010GA	

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S010G010GA

### Dimensions



## Characteristics

