Frequency Synthesizer



S010G010GA

■ Main Application

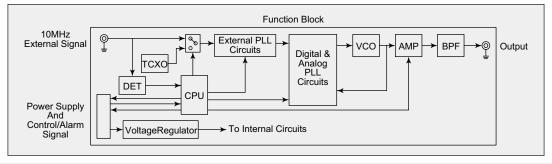
- Local Oscillator of Microwave Equipment
- Reference Signal of Radar System or Measurement Equipment

■ Features

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







■ 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 %) *1		
Frequency Resolution (MHz)		1		
Frequency Setting		3-wire Serial Interface		
Frequency Stability		Depends on External Signal		
		(Internal TCXO Stability) Max.±3×10-6		
Output Level (dBm)		10±2dB		
Spurious Harmonics (dBc)		Max. –30		
Spurious Non-harmonics (dBc)		Max60		
Phase Noise (dBc/Hz)		at 4GHz	at 7GHz	at 10GHz
	1kHz	Тур. –80	Typ. –75	Typ. –72
	10kHz	Typ. –102	Typ100	Typ. –97
	100kHz	Typ. –106	Typ. –101	Typ. –94
	1MHz	Typ. –121	Typ. –115	Typ. –107
Interface	Output	SMA-F		
	External Reference Input	SMB Jack		
	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.

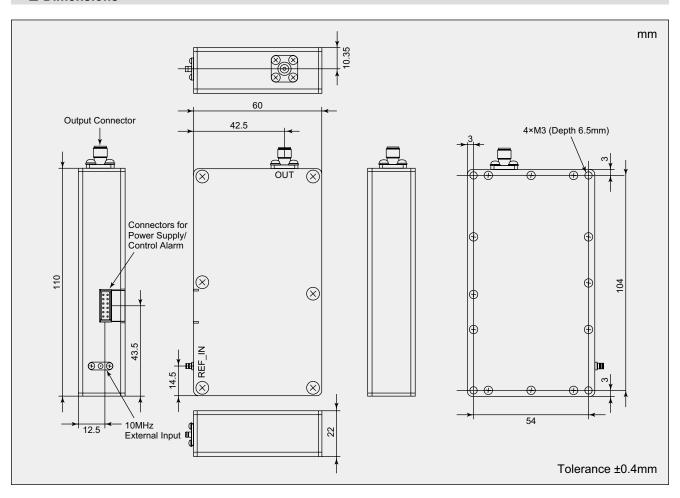
Model	
S4R0G4R1GA	
S5R0G5R1GA	
S6R0G6R1GA	
S7R0G7R2GA	
S8R0G8R2GA	
S9R0G9R2GA	
S010G010GA	

Frequency Synthesizer



S010G010GA

■ Dimensions



■ Characteristics

