

Frequency Synthesizer

Model Name S3R0G3R0GA

Phase Locked Oscillator

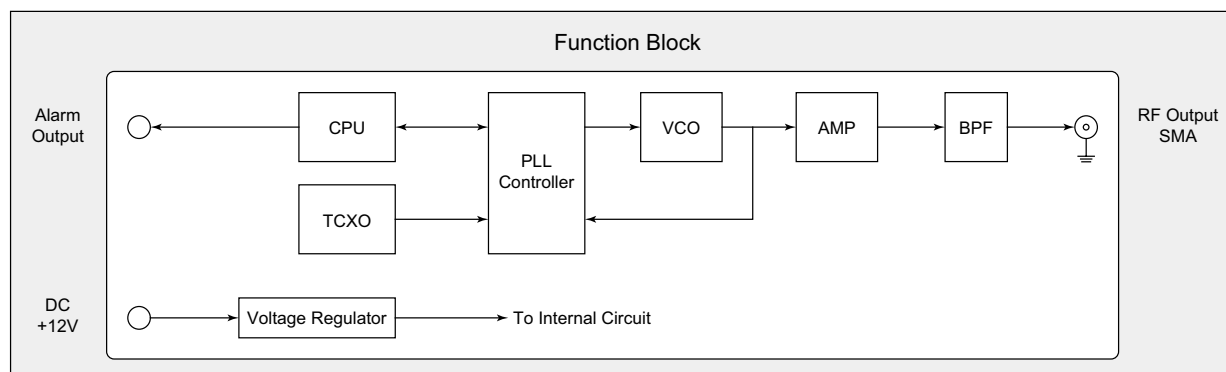
■ Main Application

- Local Oscillator for Microwave Radios
- Sampling Clock for High-Speed Data Converters

■ Features

- Best Suited for Local Oscillator with Low Phase Noise and Low Spurious Emission.
- Internal TCXO Reference and Compact Packages.
- Frequencies from 1GHz to 3GHz.

RoHS Compliant
Directive 2011/65/EU



■ Specifications

Item		Model S3R0G3R0GA		
Output Frequency		A specified frequency from 1GHz to 3GHz		
Standard frequency		1GHz, 1.5GHz, 2GHz, 2.5GHz and 3GHz *1		
Frequency Stability		Max. $\pm 1 \times 10^{-6}$		
Phase Noise (dBc/Hz)		1GHz Output	3GHz Output	—
		Max. -85	Max. -75	100Hz offset
		Max. -95	Max. -85	1kHz offset
		Max. -100	Max. -90	10kHz offset
		Max. -115	Max. -105	100kHz offset
		Max. -130	Max. -120	1MHz offset
Output Level (dBm)		+7 $\pm$ 3dB		
Start-up Time (sec)		Max. 1		
Spurious Harmonics (dBc)		Max. -45 (Up to Third Order Harmonics)		
Spurious Non-harmonics (dBc)		Max. -60 (Max. 6.7GHz)		
Interface	RF Output Connector	SMA-F		
	Power Supply	M3 DC Feedthrough Capacitor		
	Alarm Output	M3 DC Feedthrough Capacitor		
Power Supply Voltage (V)		DC+12 $\pm$ 0.5		
Current Consumption (mA)		Max. 200		
Operating Temperature Range (°C)		-10 to +60		
Dimensions (L × W × H) (mm)		60 × 35 × 21 (Except for Protruding Parts)		

Please consult factory with other output frequency.

Note: All specifications subject to change without notice.

The above specifications are standard for this NDK product. If you require a product with specifications not given above, please contact NDK sales.

*1 Model code depends on the output frequency.

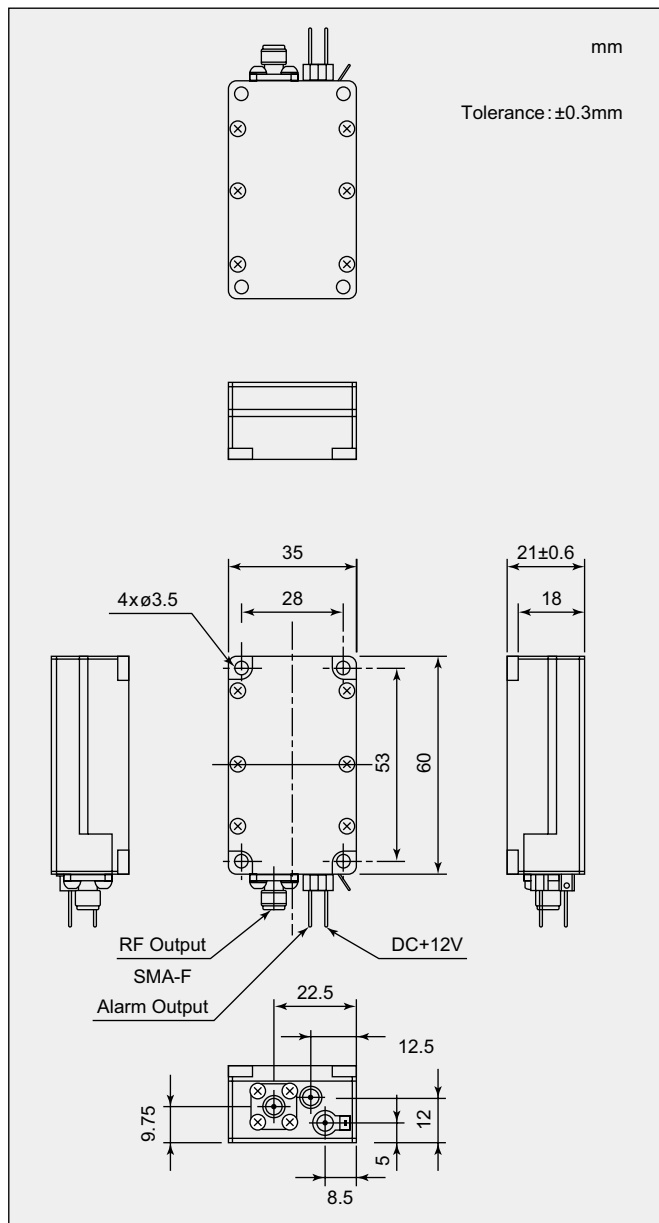
Model	Output frequency (GHz)
1	S1R0G1R0GA
1.5	S1R5G1R5GA
2	S2R0G2R0GA
2.5	S2R5G2R5GA
3	S3R0G3R0GA

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■ Dimensions



■ Characteristics

