

## Excellent Integrated System Limited

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[NDK](#)  
[S510M804MD](#)

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# Frequency Synthesizer

## S510M804MD

### ■ Features

A frequency synthesizer equipped with a high-stability TCXO. Best suited for base stations requiring low power consumption and excellent starting characteristics.

- Low-phase noise characteristic: -50 dBc max. as the integration value from 10 Hz to 1 MHz
- Wide frequency range: 510.292857 to 804.292857 MHz
- Highly stable signal source:  $\pm 2.0 \times 10^{-6}$  max.
- Frequency setting is possible with a rotary switch (6 MHz step).
- A product with characteristics best suited for digital terrestrial broadcasting (ISDB-T) mini satellite stations.



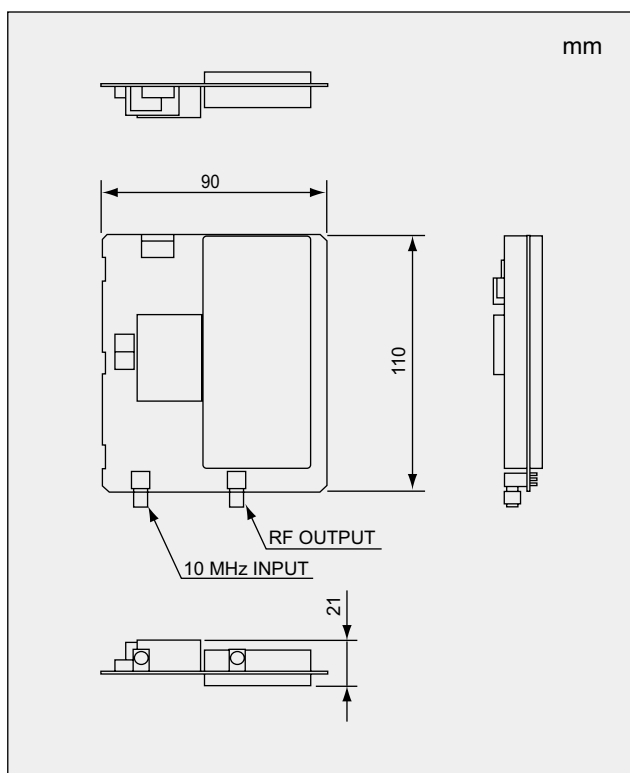
**RoHS Compliant**  
 Directive 2011/65/EU

### ■ Standard Specifications

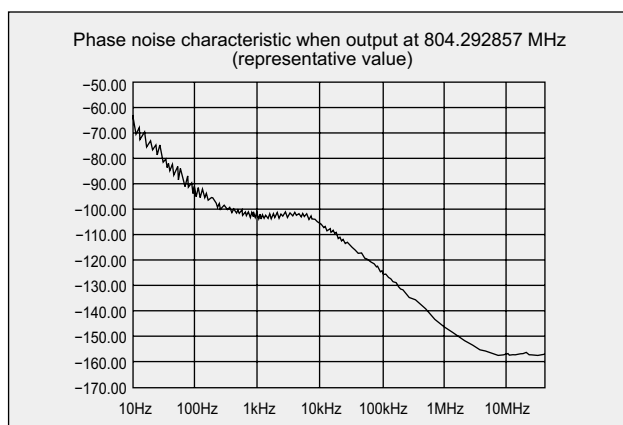
Item	Model	S510M804MD
Frequency Range		510.292857 to 804.292857 MHz (frequency variable width: 294 MHz)
Frequency setting resolution		6 MHz step (changeable with a rotary switch)
Frequency stability		Max. $\pm 2.0 \times 10^{-6}$
Aging characteristic		Max. $\pm 1.0 \times 10^{-6}$ /year
Phase noise characteristic		Max. -50 dBc (integration value of 10 Hz to 1 MHz) Max. -57 dBc (integration value of 100 Hz to 1 MHz)
Output power		0 dBm $\pm$ 3 dB
Spurious characteristic		Harmonic: Max. -20 dBc Non-harmonic: Max. -65 dBc
External signal input frequency		10 MHz
Power supply voltage (consumption current)		+12 V (Max. 0.3 A)
Operating temperature range (°C)		-20 to +60
Dimensions		90 mm (width) x 21 mm (height) x 110 mm (depth)
RF interface		SMA-F connector
Control/power supply interface		DF11-12DP-2DS (manufactured by HIROSE ELECTRIC CO., LTD.)

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

### ■ Dimensions



### ■ Characteristics



Pin configuration (DF11-12DP-2DS)

\* IC : Inter-connection

PAD	Connection
#1	GND
#2	IC
#3	PLL RESET INPUT
#4	REF ALARM OUTPUT
#5	IC
#6	IC
#7	IC
#8	UNLOCK ALARM OUTPUT
#9	RF LEVEL ALARM OUTPUT
#10	IC
#11	+12 V
#12	GND