



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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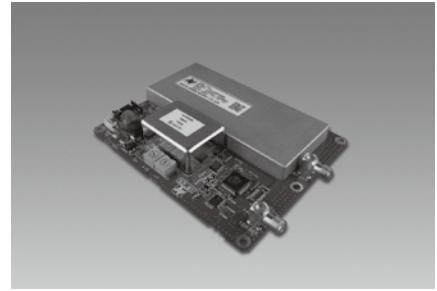


## S510M804MD

### ■ 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.



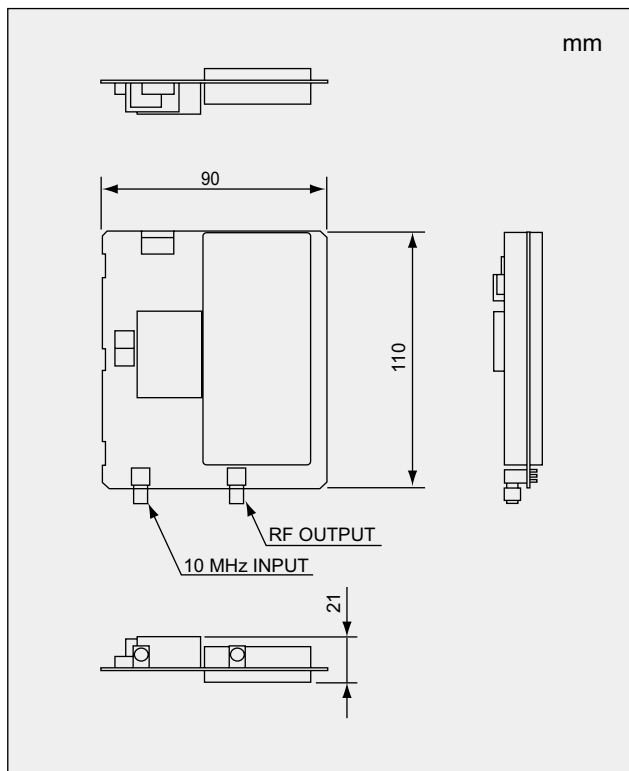
**RoHS Compliant**  
Directive 2011/65/EU

### ■ Standard Specifications

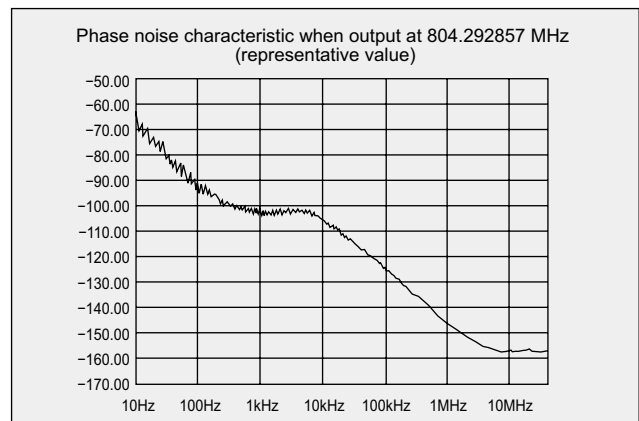
Item	Model	S510M804MD
Frequency Range		510.292857 to 804.292857 MHz (frequency variable width: 294 MHz)
Frequency setting resolution		6 MHz step (changeable with a rotary switch)
Frequency stability		Max. $\pm 2.0 \times 10^{-6}$
Aging characteristic		Max. $\pm 1.0 \times 10^{-6}$ /year
Phase noise characteristic		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