

Frequency Synthesizer

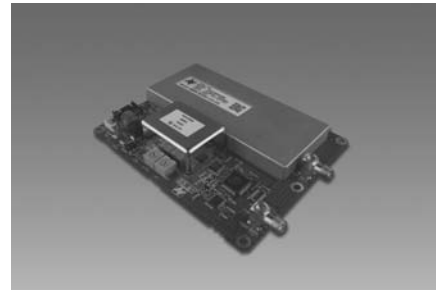
NEW

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: ± 2.0 ppm 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.



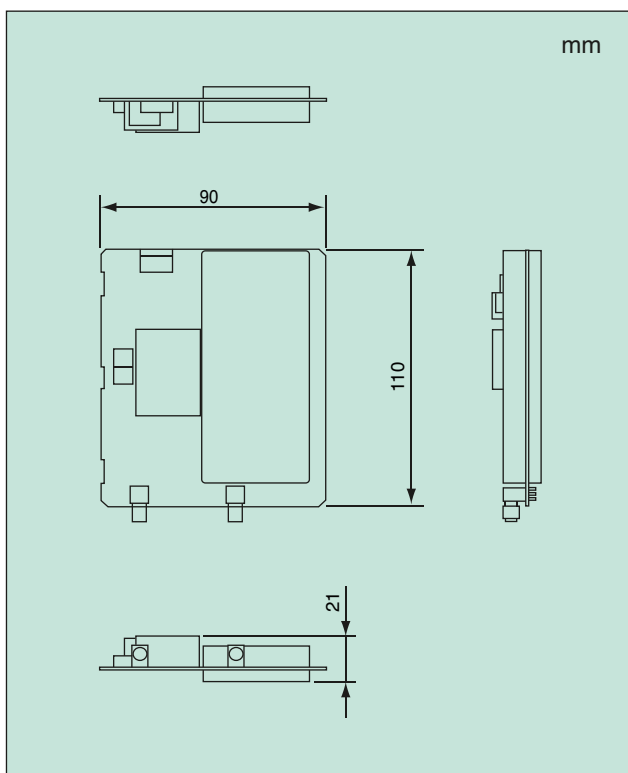
RoHS Compliant
Directive 2002/95/EC

■ Standard Specifications

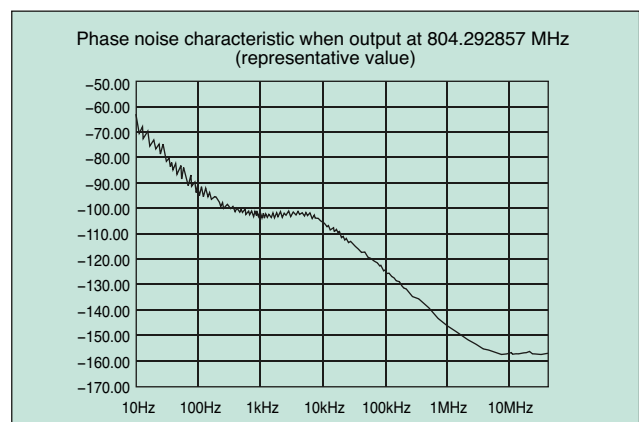
Item	Model	S510M804MD
Frequency Range		510.292857 to 804.292857 MHz (frequency variable width: 294 MHz)
Frequency setting resolution		6 MHz step (changeable with a rotary switch)
Frequency stability		$\pm 2.0 \times 10^{-6}$
Aging characteristic		$\pm 1.0 \times 10^{-6}$ /year
Phase noise characteristic		-50 dBc max. (integration value of 10 Hz to 1 MHz) -57 dBc max. (integration value of 100 Hz to 1 MHz)
Output power		0 dBm ± 3 dB
Spurious characteristic		Harmonic: -20 dBc max. Non-harmonic: -65 dBc max.
External signal input frequency		10 MHz
Power supply voltage (consumption current)		+12 VDC (0.3 A max.)
Operating temperature range		-20 to +60 °C
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