



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



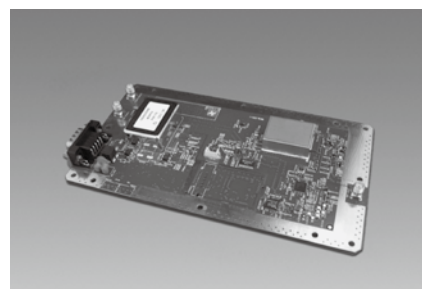
Frequency Synthesizer

S470M890MA

■ Features

A frequency synthesizer equipped with a high-stability OCXO: best suited for base stations requiring excellent aging characteristics.

- Low-phase noise characteristic: -95 dBc/Hz at 100 Hz
- Wide frequency range: 470 to 890 MHz
- Highly stable signal source: $\pm 0.1 \times 10^{-6}$ max.
- Fine frequency setting resolution: 1 Hz step
- A product with characteristics best suited for digital terrestrial broadcasting (DVB-T, ATSC).



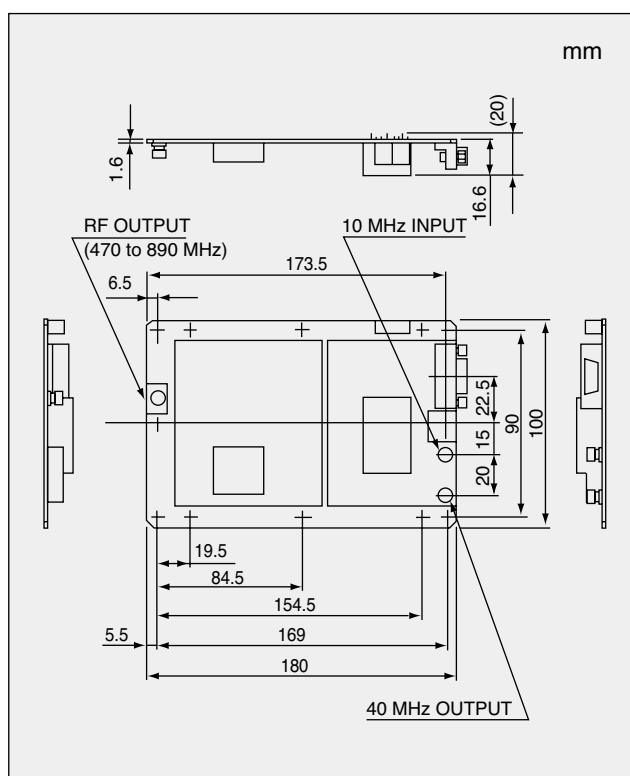
RoHS Compliant
Directive 2011/65/EU

■ Standard Specifications

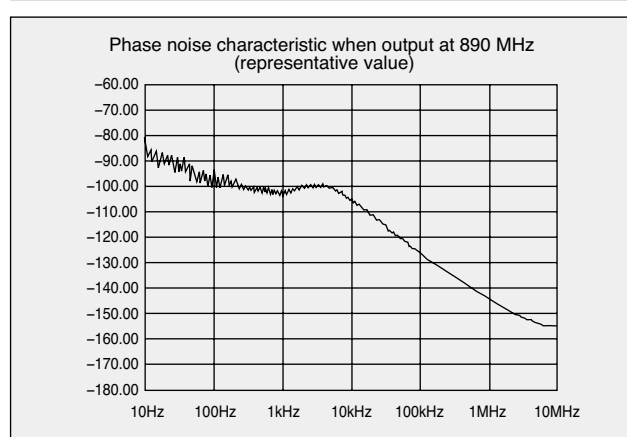
Item	Model	S470M890MA
Frequency Range		470 to 890 MHz (frequency variable width: 420 MHz)
Frequency setting resolution		1 Hz step
Frequency stability		Max. $\pm 0.1 \times 10^{-6}$
Aging characteristic		Max. $\pm 0.1 \times 10^{-6}$ /year (based on the frequency over 30 days)
Phase noise characteristic		Max. -95 dBc/Hz @100 Hz
Output power		0 dBm ± 1 dB
Spurious characteristic		Harmonic: Max. -20 dBc Non-harmonic: Max. -70 dBc
External signal input frequency		10 MHz
Power supply voltage (consumption current)		+12 V (Max. 0.5 A)
Operating temperature range (°C)		-20 to $+60$
Dimensions		100 mm (width) x 20 mm (height) x 180 mm (depth)
RF interface		SMA-F connector
Control/power supply interface		DSUB 9-pin connector

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 (DELIC-J9PAF)

PAD	Connection	
#1	Alarm 1 (RF unlock)	Output
#2	SCLK (serial clock)	Input
#3	SDI (serial data)	Input
#4	SCS (serial chip select)	Input
#5	GND	
#6	Alarm 2 (external 10 MHz PLL unlock)	Output
#7	Alarm 3 (OCXO open)	Output
#8	GND	
#9	+12 V	Input