



**THE DATASHEET OF
S470M890MA**

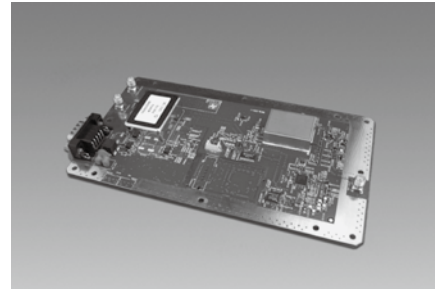


S470M890MA

■ 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).



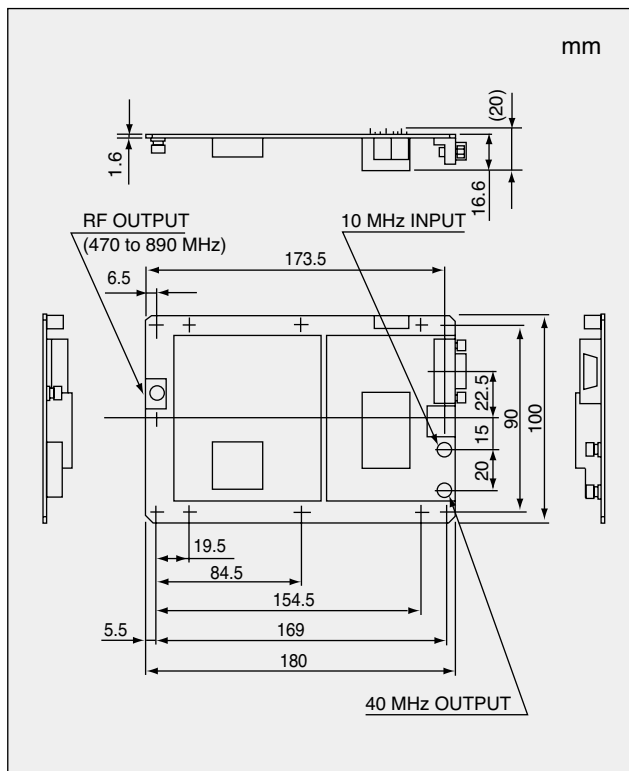
RoHS Compliant
Directive 2011/65/EU

■ Standard Specifications

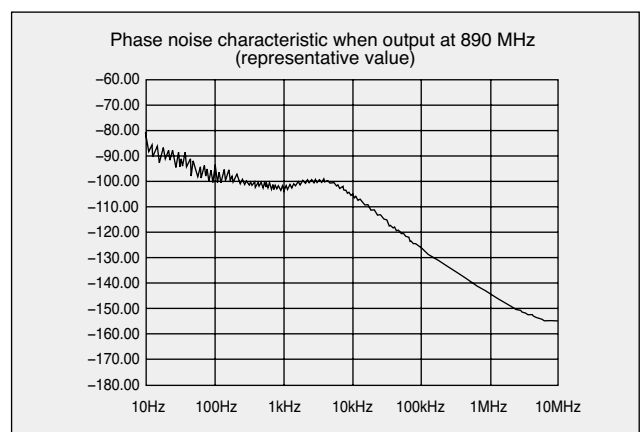
| Item | Model | S470M890MA |
|--|-------|---|
| Frequency Range | | 470 to 890 MHz (frequency variable width: 420 MHz) |
| Frequency setting resolution | | 1 Hz step |
| Frequency stability | | Max. $\pm 0.1 \times 10^{-6}$ |
| Aging characteristic | | Max. $\pm 0.1 \times 10^{-6}$ /year (based on the frequency over 30 days) |
| Phase noise characteristic | | Max. -95 dBc/Hz @100 Hz |
| Output power | | 0 dBm \pm 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 |

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