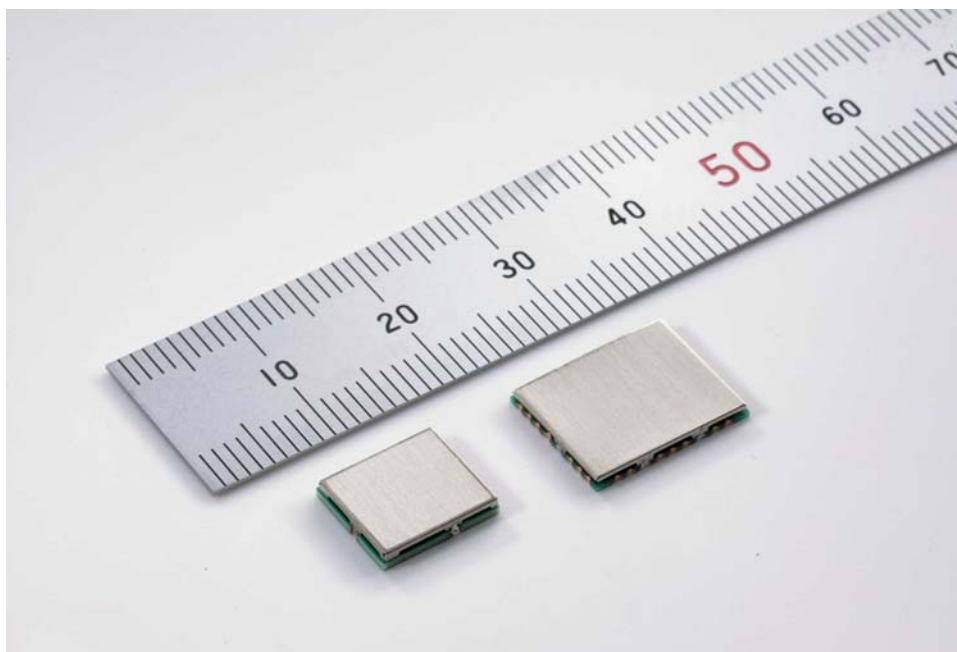


**Substantial downsizing produces the industry's smallest digital terrestrial
broadcasting reception module for mobile terminals**

—SUMUDDJ series—



[Body]

Murata Manufacturing Co., Ltd. has carried out significant downsizing of the digital terrestrial broadcasting (one-segment broadcasting) and has achieved with the new SUMUDDJ series a compact reception module for mobile terminals that is half of the size of existing products. With the industry's smallest dimensions of less than 10x10mm, this device will aid significantly in the integration of digital tuners in mobile terminals such as cellular phones, which face room constraints.

[Background]

From April 2006, terrestrial digital broadcasting services for mobile terminals (one-segment broadcasting) is available in Japan and in the near future the demand for the European standard DVB-H is expected to grow rapidly. In both market, the main driver will be the availability of small tuners for the mobile terminals.

In order to respond to these needs, Murata has utilized downsizing technology and high-density packaging using parts embedded substrate etc, creating a new product with approximately half of the size of our current products.

By using a low spuriousness design ^(*), we have achieved a reception module with high

sensitivity and flat reception over all the frequency ranges.

This technology will make new products like SD card type tuners possible.

This product was presented during the “CEATEC JAPAN 2006” (Makuhari Messe, October 3rd~7th).

[Features]

- Small size (8.7×9.6 ×1.55mm(Typ)), giving a reduction in mounting area to approximately half that of our existing products.
- A variable BPF (Band Pass Filter) mounted in the input to provide superior interference elimination.
- High sensitivity and flat reception over all the frequency ranges by using low spuriousness^(*1) design.
- Reception sensitivity of -110 (dBm Typ 1 segment band equivalent)

[Terminology]

(*1) Low spuriousness design

Analog and digital TV signal processing circuits coexist inside the module. The introduction of noise (spurious elements) from digital circuits to analog processing circuits can result in deterioration of the reception sensitivity. In the design for this module we introduced design features to reduce spurious elements from digital circuits as much as possible and eliminated spurious effects over all reception frequencies to produce high sensitivity characteristics.

[Applications]

Cellar phone, Digital Still Camera, PC, Portable Player, etc

[Part Number]

SUMUDDJ-LS101

[Production]

500,000 units per month are planned

[Patents]

Two patent pending

[External Dimensional Diagram]

