1 NDK Part Number: NX2520SA-16MHZ-EXS00A-CS05116
2 Chipset Maker: RENESAS
3 Application: zigbee
4 Chipset Name: R5F213M
5 NDK Specification Number: EXS00A-CS05116
6 Type: NX2520SA

7 Electrical Characteristics
7.1 Nominal Frequency ($f_{nom}$): 16.000 MHz
7.2 Overtone order: Fundamental
7.3 Adjustment tolerance: ±15 x 10⁻⁶ max.
7.4 Tolerance over the temperature range: ±15 x 10⁻⁶ max. (at -10 to +75 °C)
7.5 Equivalent Series Resistance ($R_s$): 80 Ω max.
7.6 Maximum Drive Level: 200 μW max.

8 Measurement Circuit
8.1 Frequency Measurement
8.1.1 Measuring Instrument: IEC π-Network
8.1.2 Load Capacitance ($C_L$): 12 pF
8.1.3 Level of Drive: 10 μW
8.2 Equivalent Resistance Measurement
8.2.1 Measuring Instrument: IEC π-Network
8.2.2 Load Capacitance ($C_L$): Series
8.2.3 Level of Drive: 10 μW
9 Operating Temperature Range: -10 to +75 °C
10 Storage Temperature Range: -40 to +85 °C

11 Dimension

(Unit: mm)

[Top View]
Terminal Land Connections

[Top View]
Land Pattern (Typical)

Terminal Connections:
#1, #3: X'tal
#2, #4: GND (Connection Cover)

Terminals:
Tungsten Metalize (Au plating on Ni pre plating)

Terminal Land Connections:

Base
Alumina Ceramics

(Metal Cover)

Jan.24 2013