

SPECIFICATION

1. Type

NX5032GA

2. Electrical characteristics

2.1 Nominal frequency

37.050MHz

2.2 Overtone order

Fundamental

2.3 Adjustment tolerance

$\pm 30 \times 10^{-6}$ max. (+25 °C)

2.4 Tolerance over the temperature range

$\pm 50 \times 10^{-6}$ max. (-40~+85 °C)

The reference temperature shall be 25°C

2.5 Equivalent resistance (R_1)

50Ω max.

2.6 Shunt capacitance (C_0)

1.44pF \pm 30%

2.7 Motional capacitance (C_1)

5.3fF \pm 30%

2.8 Maximum drive level

500μW max.

2.9 Insulation resistance

Terminal to terminal insulation resistance also terminal to cover insulation resistance must be 500MΩ (min) when DC100V \pm 15V is applied.

3. Measurement circuit

3.1 Frequency measurement

*Measuring instrument

π -Network

* Load capacitance(C_L)

8pF

*Level of drive

50μW

3.2 Equivalent resistance measurement

* Measuring instrument

π -Network

* Load capacitance(C_L)

Series

*Level of drive

50μ

4. Other performances

4.1 Storage temperature range

-40~+85°C

4.2 Air-tightness

Less than 3×10^{-9} Pa m³/s (Helium leak detector)

