

MHz RANGE CRYSTAL UNIT ULTRA MINIATURE SIZE LOW PROFILE SMD

TSX-2520

- Nominal frequency range : 16 MHz to 54 MHz
- Thickness : 0.55mm Max.
- Overtone order : Fundamental
- Applications : Mobile phone, Bluetooth, W-LAN
ISM band radio, Clock for MPU
- Lead(Pb)-free : Lead free completely



Actual size



Specifications (characteristics)

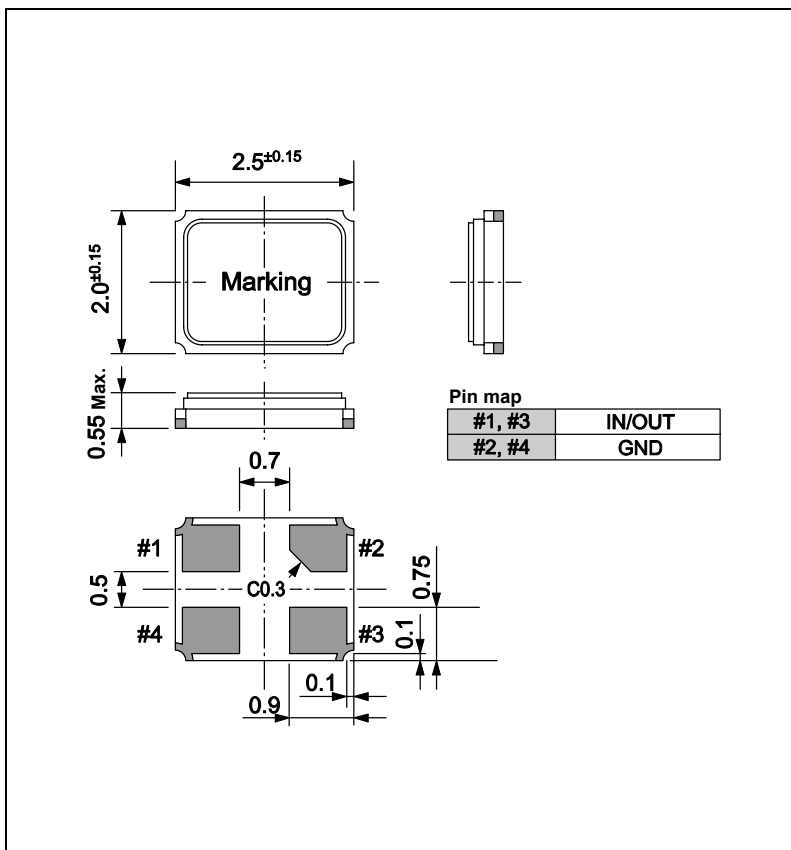
Item	Symbol	Specifications	Remarks
Nominal frequency range	f	16.000 MHz to 54.000 MHz	Fundamental
Storage temperature range	T_stg	-40 °C to +85 °C	
Operating temperature range	T_use	-20 °C to +75 °C	
Level of drive	DL	50 μW Max.	
Frequency tolerance (standard)	f_tol	$\pm 10 \times 10^{-6}$	+25 °C
Frequency versus temperature characteristics (standard)	f_tem	$\pm 10 \times 10^{-6}$	-20 °C to +75 °C
Load capacitance	CL	9 pF to ∞ (standard: 9 pF, 12 pF, 16 pF, ∞)	Please specify.
Motional resistance (ESR)	R ₁	As per below table	-20 °C to +75 °C
Frequency aging	f_age	$\pm 1 \times 10^{-6}$ / year Max.	+25 °C, First year

Motional resistance (ESR)

Frequency	Motional resistance
16.0 MHz ≤ f < 21.0 MHz	100 Ω Max.
21.0 MHz ≤ f < 26.0 MHz	80 Ω Max.
26.0 MHz ≤ f ≤ 54.0 MHz	60 Ω Max.

External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

