

Specification of Quartz Crystal Units

1	NDK Part Number	NX3225GA-26MHz-EXS00A-CG01972 NX3225GA-26M-TI
2	Chipset Maker	TEXAS INSTRUMENTS
3	Application	Smart meter, Zigbee
4	Chipset Name	Smart meter: CC430, Zigbee: CC1101
5	NDK Specification Number	EXS00A-CG01972
6	Type	NX3225GA
7	Electrical Characteristics	

	Parameters	SYM.	Electrical Spec.			Units	Notes
			min	typ	max		
1	Nominal Frequency (f _{nom})	f _{nom}	26.000			MHz	
2	Overtone order	-	Fundamental			-	
3	Frequency tolerance	-	-20	-	+20	ppm	at +25°C
4	Frequency versus temperature characteristics *1.	-	-40	-	+40	ppm	at -40 to +85°C
5	Equivalent Series Resistance	R _r	-	-	50	Ω	IECπ -Network Series
6	Load capacitance	CL	-	10	-	pF	IECπ -PI-Network
7	Level of drive	-	-	10	200	μW	
8	Shunt Capacitance	C ₀	-0.3	1.2	+0.3	pF	
9	Motional Capacitance	C ₁	-30%	4.8	+30%	fF	
10	Motional Inductance	L ₁	-30%	7.8	+30%	mH	
11	Pulling sensitivity	S	-30%	19.1	+30%	ppm/pF *2	
12	Operating temperature range	-	-40	-	+85	°C	
13	Storage temperature range	-	-40	-	+85	°C	

*1. The reference temperature shall be +25°C

*2. CL=10pF. This value is calculated by following formula.

$$S = (C_1 \times 1,000) / \{2(C_0 + CL)^2\} \text{ [ppm/pF]} \quad \text{Unit } C_0: [\text{pF}], C_1: [\text{fF}], CL: [\text{pF}]$$

Dimension

