

- 1 NDK Part Number CS05517-48M
- 2 Chipset Maker Texas Instruments
- 3 Application BLE, Zigbee, Sub-GHz
- 4 Chipset Name CC13xx/CC26xx
- 5 NDK Specification Number EXS00A-CS05517
- 6 Type NX2016SA
- 7 Electrical Characteristics

	Parameters	SYM.	Electrical Spec.			Units	Notes
			min	typ	max		
1	Nominal Frequency	f_{nom}	48.000			MHz	
2	Overtone order	-	Fundamental			-	
3	Frequency tolerance	-	-10	-	+10	ppm	at +25°C
4	Frequency versus temperature characteristics *1.	-	-20	-	+20	ppm	at -40 to -30°C
		-	-15	-	+15	ppm	at -30 to +85°C
		-	-40	-	+40	ppm	at +85 to +105°C
5	Equivalent Series Resistance	R_r	-	-	40	Ω	IEC PI-network/Series
10	Load capacitance	C_L	-	7	-	pF	IEC π -PI-Network
11	Level of drive	-	-	10	200	μ W	
6	Shunt capacitance	C_0	-30%	0.63	+30%	pF	Not grounded
7	Motional capacitance	C_1	-30%	2.20	+30%	fF	Not grounded
8	Motional inductance	L_1	-30%	5.10	+30%	mH	Not grounded
12	Insulation resistance	-	500	-	-	Ω	*2.
13	Operating temperature range	T_{opr}	-40	-	+105	°C	
14	Storage temperature range	T_{str}	-40	-	+105	°C	
15	Air-tightness	-	-	-	1.1×10^{-9}	Pa m ³ /s	Helium leak detector
16	Recommended oscillation margin	-	300	-	-	Ω	*3.

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

*2. When terminal and terminal to cover were applied at DC100V \pm 15V.

*3. When the circuit does not have enough value as above, please contact us.

NDK Spec. Number	NDK Parts number	Prior NDK parts number
EXS00A-CS00517	CS05517-48M	NX2016SA-48M-EXS00A-CS05517
		NX2016SA-48MHZ-EXS00A-CS05517

8 Dimension

