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| 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.			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 to 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

