Specification of Simple Packaged Crystal Oscillators

1. NDK Part Number NZ2520SB-133M-END4825A
2. NDK Specification Number END4825A
3. Type NZ2520SB
4. Absolute Maximum ratings

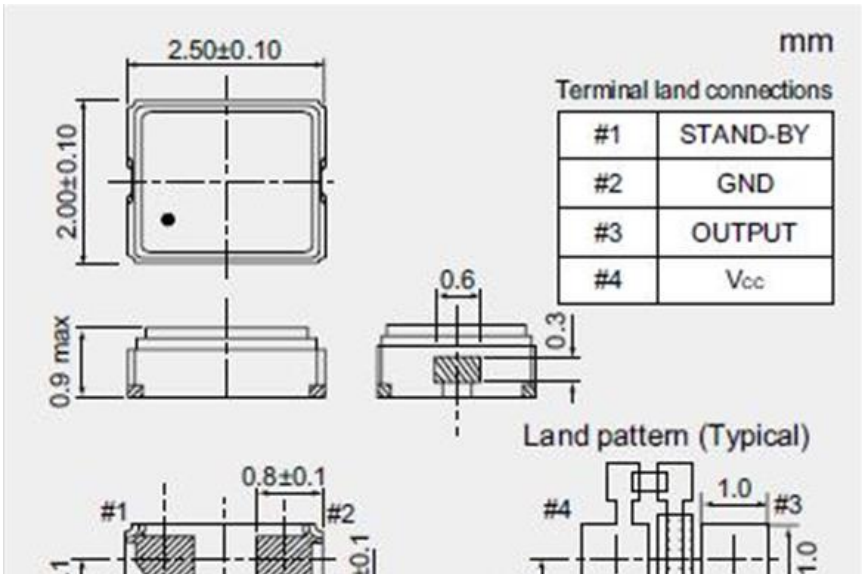
	Item	Ratings			Notes
		Min.	Max.	Units	
1	Supply voltage	-0.3	+4.0	V	-
2	Storage temp. rage	-55	+125	℃	-

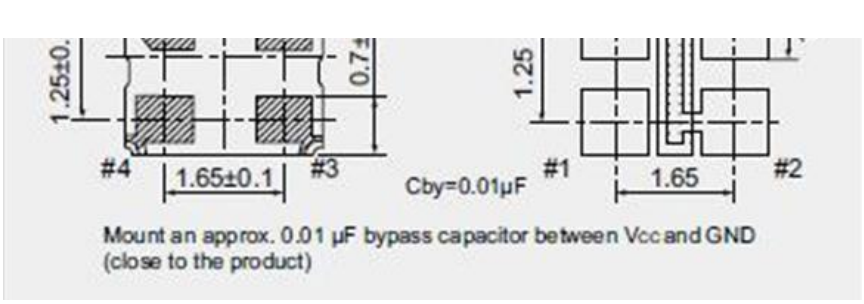
4. Electrical Specification

	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal frequency	fnom		##		MHz	-
2	Supply voltage	Vcc	3.0	3.3	3.6	V	-
3	Current consumption (Operating)	I_{CC}	-	-	60	mA	at 3.3V, 25°C
4	Current consumption (Stand-by)	I_{ST}	-	-	10	μA	at 3.3V, 25°C
5	Output level	-	CMOS				-
6	Load capacitance	CL			15	pF	-
7	Operating temp. rage	T_{opr}	-40	-	+85	℃	-
8	Overall frequency tolerance	$\Delta f/f_{nom}$	-100	-	+100	ppm	*1
9	Output voltage	V_{OL}	-	-	0.2 V_{CC}	V	-
		V_{OH}	0.8 V_{CC}	-	-	V	-
10	Rise time (T_r), Fall time (T_f)	T_r/T_f	-	-	3	ns	0.2V_{CC} to 0.8V_{CC}
11	Symmetry	SYM	45	-	55	%	at 0.5V_{CC}
12	Start-up time	T_{su}	-	-	10	ms	
13	Output wave form	-	Rectangular				-
14	Stand-by function						
	#1 PAD input			# 3 PAD output			
	H level (0.7 V_{CC} to V_{CC}) or ppen			Operating			
	L level (0.3 V_{CC} max.)			High impedance			

*1 'Inclusive of frequency. tolerance (at 25 °C), requency/temperature characteristics, frequency/voltage coefficient.

5. Dimension





Mount an approx. 0.01 µF bypass capacitor between Vcc and GND
(close to the product)

2017.09.19