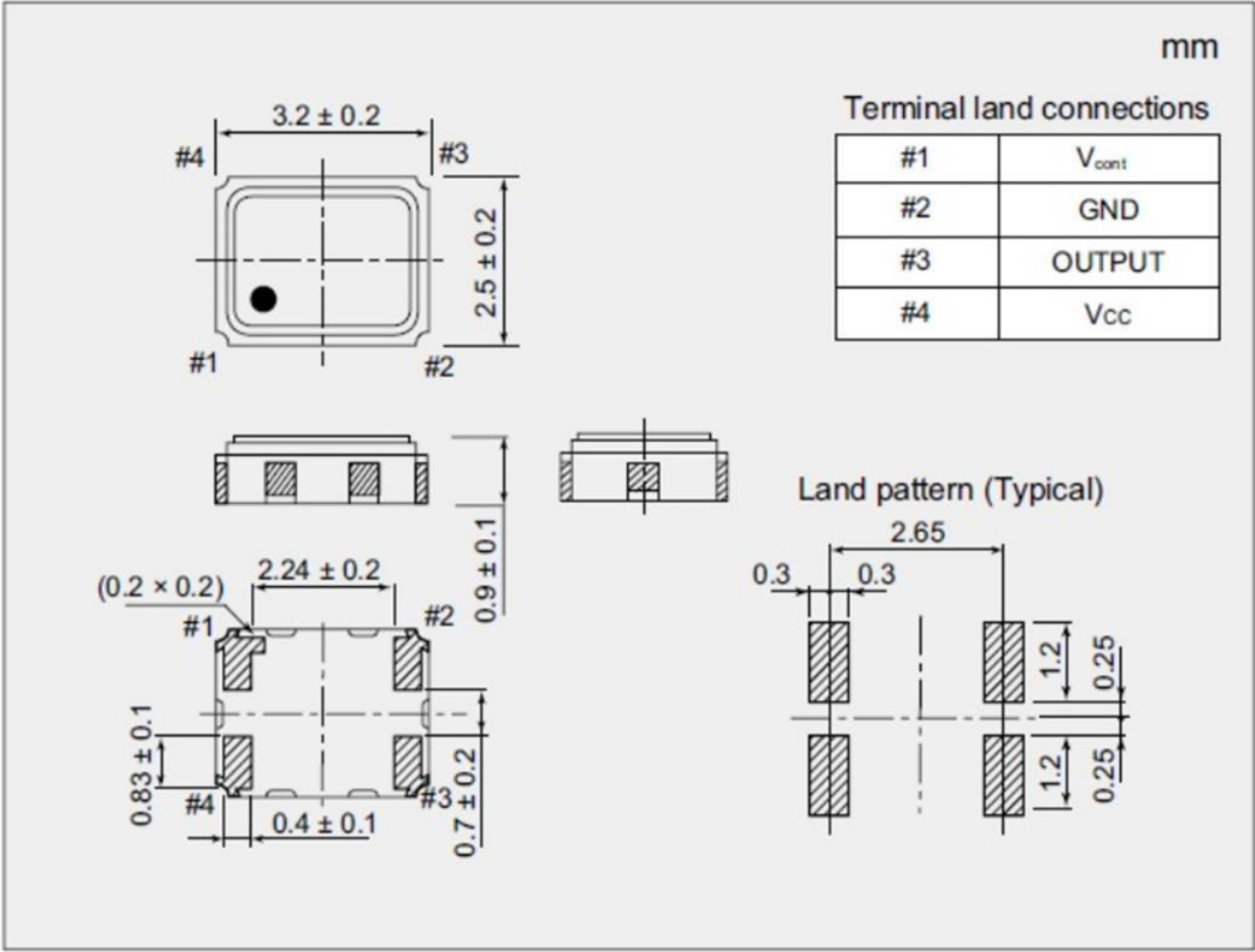


Specification of Temperature Compensated Crystal Oscillators

1. NDK Part Number NT3225SA-19.2M-DJA3002B
2. NDK Specification Number DJA3002B
3. Type NT3225SA
4. Electrical Specification

	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal frequency	f _{nom}	19.200			MHz	-
2	Supply voltage	V _{cc}	-	+2.8	-	V	-
3	Current consumption	-	-	-	1.5	mA	-
4	Output voltage	-	0.8	-	-	V _{p-p}	Clipped sine wave (DC-Coupling)
5	Operating temp. rage	-	-30	-	+75	°C	-
6	Storage temp. rage	-	-40	-	+85	°C	-
7	Load impedance (resistance part)	-	9	10	11	kΩ	-
8	Load impedance (parallel capacitance)	-	9	10	11	pF	-
9	DC-cut capacitor	-	-	-	-	-	DC-cut capacitor of output is not put in TCXO. Please add DC-cut capacitor(1,000pF)in output line.
10	Frequency/temperature characteristics	-	-2.5	-	+2.5	ppm	-30to+75°C(Based on frequency at +25+/-2°C)at control voltage (V _{cont})=+1.2VDC
11	Frequency/Voltage coefficient	-	-0.3	-	+0.3	ppm	+2.8V+/-0.1V
12	Frequency/Load coefficient	-	-0.2	-	+0.2	ppm	(10kΩ//10pF)+/-10%
13	Frequency tolerance	-	-1.5	-	+1.5	ppm	+/-25°C+/-2°C,Before reflow soldering,based on nominal frequency at controlvoltage (V _{cont})=+1.2VDC.
14	Long-term frequency stabillity	-	-1.0	-	+1.0	ppm	year(at +25°C)
15	Control voltage	V _{cont}	+0.2	+1.2	+2.2	V	-
16	Frequency control range	-	-15.0	-	-9.0	ppm	V _{cont} =+0.2V
		-	+9.0	-	+15.0	ppm	V _{cont} =+2.2V
17	Frequency change polarity	-	-	-	-	-	Positive
18	Stabilization time	-	-	-	4.0	ms	+/-0.1 ppm of final frequency final frequency is the frequency after 10 s from the point when supply voltage is reached at+2.8 V. Measurement is done while the control voltage is kept at its typical value at
19	Symmetry	-	40	-	60	%	Based on GND after DC removal.
20	Phase noise	-	-	-	-130	dBc/Hz	@1 kHz offset

5. Dimension



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NDK:

[NT3225SA-19.2M-DJA3002B](#)