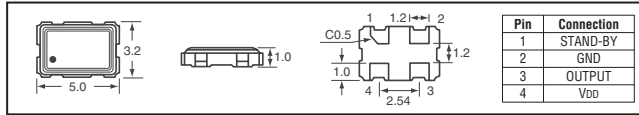


NDK 2765E Series Spread Spectrum SMT Oscillators

ELECTRICAL CHARACTERISTICS: • Supply Voltage: 3.3V ±0.3 • Output Level: CMOS
 • Frequency Stability: ±100ppm • Current Consumption: 30mA Maximum • Current Consumption (Standby): 30µA • Operating Temperature: -20°C - 70°C • Rise Time/Fall Time: 5ns Maximum • Duty Cycle: 40% - 60% at ½ VDD



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			T & R Pricing †	NDK Part No.
		1	10	100		
25.00	644-1071-1-ND	3.40	3.07	2.56	1702.00	2765E-25.000000MHZ
40.00	644-1073-1-ND	3.40	3.07	2.56	1702.00	2765E-40.000000MHZ
50.00	644-1074-1-ND	3.68	3.32	2.76	1839.00	2765E-50.000000MHZ
66.00	644-1075-1-ND	3.68	3.32	2.76	1839.00	2765E-66.000000MHZ
66.667	644-1076-1-ND	3.68	3.32	2.76	1839.00	2765E-66.667000MHZ
80.00	644-1077-1-ND	3.68	3.32	2.76	1839.00	2765E-80.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

Automotive Application Crystals

Frequency (MHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing †	NDK Part No.
			1	10	50		
Wide Temperature Range Automotive Applications							
12.00	8.0	644-1128-1-ND	1.37	1.28	1.10	510.00	NX3225SA 12MHZ AT-W
16.00	8.0	644-1129-1-ND	1.37	1.28	1.10	510.00	NX3225SA 16MHZ AT-W
20.00	8.0	644-1130-1-ND	1.37	1.28	1.10	510.00	NX3225SA 20MHZ AT-W
40.00	8.0	644-1131-1-ND	1.44	1.35	1.16	539.00	NX3225SA 40MHZ AT-W
8.00	8.0	644-1132-1-ND	1.64	1.53	1.32	612.00	NX5032GA 8MHZ AT-W
10.00	8.0	644-1133-1-ND	1.64	1.53	1.32	612.00	NX5032GA 10MHZ AT-W
12.00	8.0	644-1134-1-ND	1.64	1.53	1.32	612.00	NX5032GA 12MHZ AT-W
16.00	8.0	644-1135-1-ND	1.64	1.53	1.32	612.00	NX5032GA 16MHZ AT-W
20.00	8.0	644-1136-1-ND	1.64	1.53	1.32	612.00	NX5032GA 20MHZ AT-W
40.00	8.0	644-1137-1-ND	1.64	1.53	1.32	612.00	NX5032GA 40MHZ AT-W
4.00	8.0	644-1138-1-ND	1.44	1.35	1.16	539.00	NX8045GB 4MHZ AT-W
Automotive TPMS Applications							
9.84375	8.0	644-1139-1-ND	1.64	1.53	1.32	612.00	NX5032GA 9.84375MHZ AT-TPMS
13.56	8.0	644-1140-1-ND	1.64	1.53	1.32	612.00	NX5032GA 13.56MHZ AT-TPMS
9.84375	12.0	644-1141-1-ND	1.76	1.64	1.41	655.00	NX5032SD 9.84375MHZ AT-TPMS
13.56	12.0	644-1142-1-ND	1.76	1.64	1.41	655.00	NX5032SD 13.56MHZ AT-TPMS

† For Tape and Reel part number, change 1-ND to 2-ND. **Note:** For additional specifications please reference the manufacturer's data sheets.

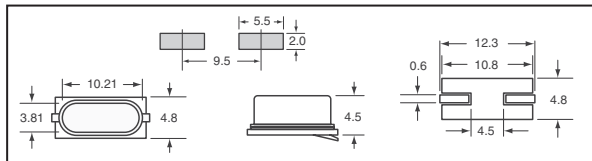
Chip Set TCXOs and Crystals

Type	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel		NDK Part No.	Compatible Chip Sets and Applications
			1	10	50	Qty.	Pricing		
TCXO	26.00	644-1113-1-ND	4.05	3.79	3.25	1,000	1513.00	NT2520SA-26.000000MHZ-A1	NXP (Philips), GSM
	19.20	644-1111-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-19.200000MHZ-T3	QUALCOMM, CDMA (MSM6000)
	19.20	644-1090-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-19.200000MHZ-T2	NXP (Philips), TV ON MOBILE
	26.00	644-1091-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-26.000000MHZ-B2	NXP (Philips), 3G UMTS/CDMA
	26.00	644-1092-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-26.000000MHZ-G7	ADI, GSM
	26.00	644-1110-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-26.000000MHZ-G8	ADI, GSM (AD6548)
	52.00	644-1112-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-52.000000MHZ-S1	FREESCALE, GSM (PYTHON)
Crystal	16.00	644-1093-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-16.000000MHZ-W1	FREESCALE, ZIGBEE
	24.00	644-1094-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-24.000000MHZ-B8	NXP (Philips), Bluetooth
	26.00	644-1095-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-26.000000MHZ-B9	NXP (Philips), Bluetooth
	40.00	644-1096-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-40.000000MHZ-W2	STEPMIND, WLAN-WIFI
	40.00	644-1097-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-40.000000MHZ-W3	NXP (Philips), WLAN-WIFI
	16.00	644-1098-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-16.000000MHZ-B3	Cambridge Silicon Radio, Bluetooth
	16.00	644-1100-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-16.000000MHZ-T1	NXP (Philips), TV ON MOBILE
	20.00	644-1098-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-20.000000MHZ-B2	Cambridge Silicon Radio, Bluetooth
	26.00	644-1101-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-B1	Broadcom, Bluetooth
	26.00	644-1109-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-G2	Atheros, GSM
	26.00	644-1102-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-G3	Atheros, GSM
	26.00	644-1103-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-G4	INFINEON, GSM
	39.00	644-1104-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-39.000000MHZ-B4	XEMICONS-SEMTECH, Bluetooth
	13.00	644-1105-1-ND	1.04	.86	.76	3,000	531.00/M	NX4025DA-13.000000MHZ-B6	NXP (Philips), Bluetooth
	15.36	644-1106-1-ND	1.04	.86	.76	3,000	531.00/M	NX4025DA-15.360000MHZ-B7	FREESCALE, Bluetooth
	16.00	644-1107-1-ND	1.04	.86	.76	3,000	531.00/M	NX4025DA-16.000000MHZ-B5	Cambridge Silicon Radio, Bluetooth
13.00	644-1108-1-ND	.92	.76	.67	5,000	467.00/M	NX5032SA-13.000000MHZ-G1	Atheros, GSM	

† For Tape and Reel part number, change 1-ND to 2-ND. **Note:** For additional specifications please reference the manufacturer's data sheets.

AVX CX49GFWB Series SMT Crystals

FEATURES: • Crystal unit for audio-visual and office equipment • Metal package • Hermetic sealed resistance weld
APPLICATIONS: • Digital electronics • Audio-visual • Office equipment
SPECIFICATIONS: • Frequency Tolerance: ±50ppm • Frequency Temperature Characteristics: ±50ppm • Load Capacitance: 12pF • Operating Temperature Range: -10°C - 70°C • Storage Temperature Range: -40°C - 85°C



Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digikey.com

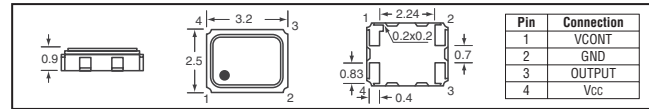
Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380

(T091) 1413

NT3225SA Series SMT TCXO



ELECTRICAL CHARACTERISTICS: • Supply Voltage: 3.0VDC • Load: 10kΩ/10pF • Current Consumption: 1.5mA Maximum • Frequency Stability: ±2.5ppm • Operating Temperature: -30°C - 75°C • Output Voltage: 0.8V(P-P), DC Coupling • AFC: ±9ppm • ±15ppm/1.5V ±1V



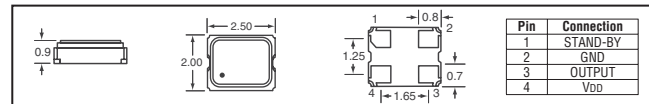
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			T & R Pricing †	NDK Part No.
		1	10	50		
13.00	644-1086-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-13.000000MHZ
19.20	644-1087-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-19.200000MHZ
19.68	644-1088-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-19.680000MHZ
26.00	644-1089-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-26.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! NZ2520SB Series SMT Oscillators



ELECTRICAL CHARACTERISTICS: • Supply Voltage: 3.0V • Output Level: CMOS • Frequency Stability: ±30ppm • Current Consumption: 6mA Maximum • Current Consumption (Standby): 10µA • Operating Temperature: -10°C - 60°C • Rise Time/Fall Time: 5ns Maximum • Duty Cycle: 45% - 55%



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			T & R Pricing †	NDK Part No.
		1	10	100		
2.75	644-1143-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-2.750000MHZ
5.00	644-1145-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-5.000000MHZ
7.60	644-1144-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-7.600000MHZ
10.00	644-1146-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-10.000000MHZ
19.20	644-1147-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-19.2000MHZ
20.00	644-1148-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-20.000000MHZ
22.00	644-1149-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-22.000000MHZ
25.60	644-1150-1-ND	2.32	2.09	1.74	1158.00/M	NZ2520SB-25.6000MHZ
38.90	644-1151-1-ND	2.40	2.16	1.80	1198.00/M	NZ2520SB-38.9000MHZ
40.00	644-1152-1-ND	2.40	2.16	1.80	1198.00/M	NZ2520SB-40.000000MHZ
41.36	644-1153-1-ND	2.40	2.16	1.80	1198.00/M	NZ2520SB-41.3600MHZ
44.00	644-1154-1-ND	2.40	2.16	1.80	1198.00/M	NZ2520SB-44.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

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