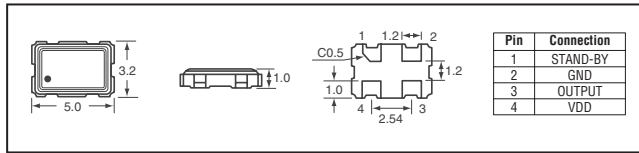




2765E Series Spread Spectrum SMT Oscillators



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	4.54	3.94	2.73	—	2765E-25.000000MHZ
40.00	644-1073-1-ND	2.59	2.22	1.75	—	2765E-40.000000MHZ
50.00	644-1074-1-ND	3.82	3.32	2.30	—	2765E-50.000000MHZ
66.00	644-1075-1-ND	4.54	3.94	2.73	1695.13	2765E-66.000000MHZ
80.00	644-1077-1-ND	4.54	3.94	2.73	2421.62	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	1.20	1.04	.92	448.00	NX3225SA 12MHZ AT-W
16.00	8.0	644-1129-1-ND	1.20	1.04	.92	448.00	NX3225SA 16MHZ AT-W
20.00	8.0	644-1130-1-ND	1.20	1.04	.92	448.00	NX3225SA 20MHZ AT-W
40.00	8.0	644-1131-1-ND	1.27	1.10	.97	—	NX3225SA 40MHZ AT-W
8.00	8.0	644-1132-1-ND	1.36	1.18	1.04	508.54	NX5032GA 8MHZ AT-W
10.00	8.0	644-1133-1-ND	1.36	1.18	1.04	508.54	NX5032GA 10MHZ AT-W
12.00	8.0	644-1134-1-ND	1.36	1.18	1.04	508.54	NX5032GA 12MHZ AT-W
16.00	8.0	644-1135-1-ND	1.36	1.18	1.04	508.54	NX5032GA 16MHZ AT-W
20.00	8.0	644-1136-1-ND	1.36	1.18	1.04	508.54	NX5032GA 20MHZ AT-W
40.00	8.0	644-1137-1-ND	1.36	1.18	1.04	—	NX5032GA 40MHZ AT-W
4.00	8.0	644-1138-1-ND	1.20	1.04	.92	448.00	NX8045GB 4MHZ AT-W
Automotive TPMS Applications							
9.84375	8.0	644-1139-1-ND	1.36	1.18	1.04	508.54	NX5032GA 9.84375MHZ AT-TPMS
13.56	8.0	644-1140-1-ND	1.36	1.18	1.04	—	NX5032GA 13.56MHZ AT-TPMS
9.84375	12.0	644-1141-1-ND	1.46	1.27	1.11	544.86	NX5032SD 9.84375MHZ AT-TPMS
13.56	12.0	644-1142-1-ND	1.46	1.27	1.11	544.86	NX5032SD 13.56MHZ AT-TPMS

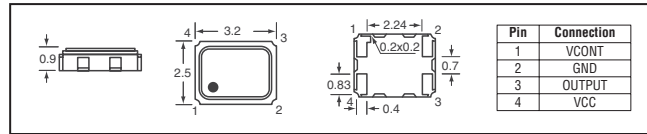
† For Tape and Reel part number, change 1-ND to 2-ND.

Note: For additional specifications please reference the manufacturer's data sheets.

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



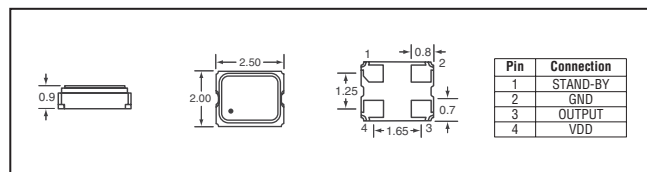
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			T & R Pricing †	NDK Part No.
		1	10	50		
13.00	644-1086-1-ND	3.37	2.93	2.57	1302.96/M	NT3225SA-13.000000MHZ
19.20	644-1087-1-ND	3.37	2.93	2.57	1258.04/M	NT3225SA-19.200000MHZ
19.68	644-1088-1-ND	3.37	2.93	2.57	1258.04/M	NT3225SA-19.680000MHZ
26.00	644-1089-1-ND	3.37	2.93	2.57	1258.04/M	NT3225SA-26.000000MHZ

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

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	2.41	2.09	1.45	866.34/M	NZ2520SB-2.750000MHZ
5.00	644-1145-1-ND	2.41	2.09	1.45	866.34/M	NZ2520SB-5.000000MHZ
7.60	644-1144-1-ND	2.41	2.09	1.45	866.34/M	NZ2520SB-7.600000MHZ
10.00	644-1146-1-ND	2.41	2.09	1.45	866.34/M	NZ2520SB-10.000000MHZ
19.20	644-1147-1-ND	2.41	2.09	1.45	866.34/M	NZ2520SB-19.2000MHZ
20.00	644-1148-1-ND	2.41	2.09	1.45	866.34/M	NZ2520SB-20.000000MHZ
22.00	644-1149-1-ND	2.41	2.09	1.45	866.34/M	NZ2520SB-22.000000MHZ
25.60	644-1150-1-ND	2.41	2.09	1.45	866.34/M	NZ2520SB-25.6000MHZ
40.00	644-1152-1-ND	2.49	2.16	1.50	896.69/M	NZ2520SB-40.000000MHZ
41.36	644-1153-1-ND	2.49	2.16	1.50	896.69/M	NZ2520SB-41.3600MHZ

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

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	3.37	2.93	2.57	1,000	1258.03	NT2520SA-26.000000MHZ-A1	NXP (Philips), GSM
	19.20	644-1111-1-ND	3.37	2.93	2.57	—	—	NT3225SA-19.200000MHZ-T3	QUALCOMM, CDMA (MSM6000)
	19.20	644-1090-1-ND	3.37	2.93	2.57	1,000	1258.03	NT3225SA-19.200000MHZ-T2	NXP (Philips), TV ON MOBILE
	26.00	644-1091-1-ND	3.37	2.93	2.57	1,000	1258.03	NT3225SA-26.000000MHZ-G5	NXP (Philips), 3G UMTS/CDMA
	26.00	644-1092-1-ND	3.37	2.93	2.57	—	—	NT3225SA-26.000000MHZ-G7	ADI, GSM
	26.00	644-1110-1-ND	3.37	2.93	2.57	1,000	1258.03	NT3225SA-26.000000MHZ-G8	ADI, GSM (AD6548)
Crystal	26.00	644-1161-1-ND	1.55	1.35	1.19	1,000	581.19	NX1612AA-26MHZ-T12	Texas Instruments, (BL6450) Bluetooth + FM
	16.00	644-1093-1-ND	1.84	1.60	1.40	3,000	662.01/M	NX2520SA-16.000000MHZ-W1	FREESCALE, ZIGBEE
	24.00	644-1094-1-ND	1.84	1.60	1.40	3,000	662.01/M	NX2520SA-24.000000MHZ-B8	NXP (Philips), Bluetooth
	26.00	644-1095-1-ND	1.84	1.60	1.40	3,000	662.01/M	NX2520SA-26.000000MHZ-B9	NXP (Philips), Bluetooth
	40.00	644-1096-1-ND	1.84	1.60	1.40	3,000	662.01/M	NX2520SA-40.000000MHZ-W2	STEPMIND, WLAN-WIFI
	40.00	644-1097-1-ND	1.84	1.60	1.40	3,000	662.01/M	NX2520SA-40.000000MHZ-W3	NXP (Philips), WLAN-WIFI
	16.00	644-1099-1-ND	1.04	.91	.80	3,000	374.79/M	NX3225SA-16.000000MHZ-B3	Cambridge Silicon Radio, Bluetooth
	16.00	644-1100-1-ND	3.37	2.93	2.57	3,000	374.79/M	NX3225SA-16.000000MHZ-T1	NXP (Philips), TV ON MOBILE
	20.00	644-1098-1-ND	1.04	.91	.80	3,000	374.79/M	NX3225SA-20.000000MHZ-B2	Cambridge Silicon Radio, Bluetooth
	26.00	644-1160-1-ND	.75	.65	.57	1,000	279.70	NX3225GA-26MHZ-T1	Texas Instruments, (CC430 Family) Ultra Low-Power Microcontrollers Texas Instruments, (CC1101) Zigbee
	26.00	644-1101-1-ND	1.04	.91	.80	3,000	374.79/M	NX3225SA-26.000000MHZ-B1	Broadcom, Bluetooth
	26.00	644-1109-1-ND	1.04	.91	.80	3,000	374.79/M	NX3225SA-26.000000MHZ-G2	Atheros, GSM
	26.00	644-1102-1-ND	1.04	.91	.80	3,000	374.79/M	NX3225SA-26.000000MHZ-G3	Atheros, GSM
	26.00	644-1103-1-ND	1.04	.91	.80	3,000	374.79/M	NX3225SA-26.000000MHZ-G4	INFINEON, GSM
	39.00	644-1104-1-ND	1.04	.91	.80	3,000	374.79/M	NX3225SA-39.000000MHZ-B4	XEMICS-SEMTECH, Bluetooth
	13.00	644-1105-1-ND	1.33	1.16	1.02	3,000	478.71/M	NX4025DA-13.000000MHZ-B6	NXP (Philips), Bluetooth
	15.36	644-1106-1-ND	1.33	1.16	1.02	—	—	NX4025DA-15.360000MHZ-B7	FREESCALE, Bluetooth
	16.00	644-1107-1-ND	1.33	1.16	1.02	3,000	478.71/M	NX4025DA-16.000000MHZ-B5	Cambridge Silicon Radio, Bluetooth
	13.00	644-1108-1-ND	1.07	.93	.82	1,000	371.03	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.

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.

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