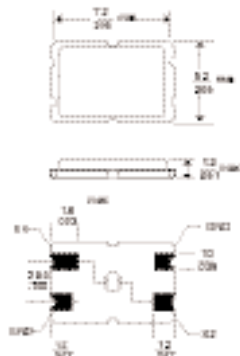


Surface Mount Crystals

NKS7 Series



A series of miniature crystals in a standard 5 x 7mm ceramic package.

SaRonix

Frequency Range: 8MHz to 30MHz (Fundamental) Load Capacitance: 8 to 32pF, or Series Resonant
 30MHz to 83MHz (3rd Overtone) Drive Level: 500µW max.
 Operating Temperature: -20°C to +70°C Shunt Capacitance: 7pF max.
 Temperature Stability: ±50ppm

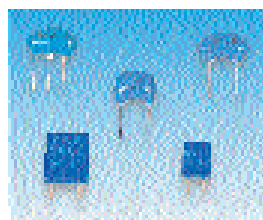
SEM882

Frequency	Mfrs. List No.
8.00000	NKS7-080-20
8.19200	NKS7-082-20
9.83040	NKS7-098-20
10.00000	NKS7-100-20
11.05920	NKS7-111-20
12.00000	NKS7-120-20
14.31818	NKS7-143-20
16.38400	NKS7-163-20
18.43200	NKS7-184-20
19.66080	NKS7-196-20
24.00000	NKS7-240-20
27.00000	NKS7-270-20
32.00000	NKS7-320-20
40.00000	NKS7-400-20

Order Code	Price Each			
	1+	10+	100+	250+ 500+
329-8310				
329-8322				
329-8334				
329-8346				
329-8358				
329-8360				
329-8371				
329-8383				
329-8395				
329-8401				
329-8413				
329-8425				
329-8449				
329-8450				

Resonators

CSx Prefix = Murata, NCZTx Prefix = Newport



A range of small, lightweight, ultra low cost resonators designed for use in oscillator circuits. These components are made of high stability piezoelectric ceramics and have been developed to function as a reference signal generator (the frequency is primary adjusted by the size and thickness of the ceramic element). Typical applications include TVs, VCRs, automotive electronic devices, telephones, copiers, cameras, voice synthesizers, communication equipment, remote control units, etc.

Ceramic resonators may also be used as the timing element in most microprocessor based equipment.

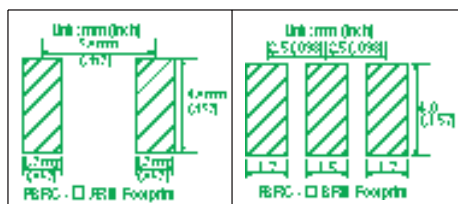
Initial tolerance ±0.5%.

Freq. MHz	W	H	D	Lead Spacing	Mfrs. List No.	Order Multiple = 5		Price Each			
						Order Code	5+	10+	100+	250+	
0.455	7.5	8.5	3.3	5.0	CSB455J	445-514					
0.50	7.5	8.5	3.3	5.0	CSB500J	295-231					
0.50	7.5	8.5	3.3	5.0	NCZTB/500.00/E	573-530					
0.56	7.5	7.2	2.8	5.0	CSB560J	445-526					
1.00	5.0	6.0	2.2	2.5	CSB1000J	295-243					
1.00	5.0	6.0	2.2	2.5	NCZTB/1.0000/J	573-541					
2.00	10.0	10.0	5.0	5.0	CSA2.00MG	445-502					
2.00	10.0	10.0	5.0	5.0	NCZTA/2.0000/A	573-553					
2.45	10.0	7.5	5.0	5.0	CSA2.45MG	445-484					
3.58	10.0	7.5	5.0	5.0	CSA3.58MG	295-255					
3.58	10.0	7.5	5.0	5.0	NCZTA/3.5800/A	573-565					
3.69	10.0	7.5	5.0	5.0	CSA3.69MG	445-496					
3.69	10.0	7.5	5.0	5.0	NCZTA/3.6900/A	573-577					
4.00	10.0	7.5	5.0	5.0	CSA4.00MG	295-267					
4.00	10.0	7.5	5.0	5.0	NCZTA/4.0000/A	573-589					
4.19	10.0	7.5	5.0	5.0	CSA4.19MG	295-279					
5.00	10.0	7.5	5.0	5.0	CSA5.00MG	295-280					
6.00	10.0	7.5	5.0	5.0	CSA6.00MG	295-292					
8.00	10.0	10.0	5.0	5.0	CSA8.00MTZ	295-309					
8.00	10.0	10.0	5.0	5.0	NCZTA/8.0000/B	573-590					
12.00	10.0	10.0	5.0	5.0	CSA12.00MTZ	295-310					
12.00	10.0	10.0	5.0	5.0	NCZTA/12.000/B	573-607					
16.00	10.0	10.0	5.0	5.0	CSA16.00MXZ040	295-322					

The following 3 lead Ceramic Resonators can make up oscillation circuits without load capacitance.

SEM147

Freq. MHz	W	H	D	Lead Spacing	Mfrs. List No.	Order Multiple = 5		Price Each			
						Order Code	5+	10+	100+	250+	
3.58	10.0	6.0	5.0	2.5	CST3.58MGW	295-334					
4.00	10.0	6.0	5.0	2.5	CST4.00MGW	295-346					
4.19	10.0	6.0	5.0	2.5	CST4.19MGW	295-358					
6.00	10	6.0	5.0	2.5	CST6.00MGW	295-371					
8.00	10.0	8.0	5.0	2.5	CST8.00MTW	445-551					



A range of high quality, leaded and surface mount, Ceramic Resonators for oscillator circuit designs. Frequency tolerance ±0.5%.

Freq. MHz	W	H	D	Lead Spacing	Mfrs. List No.	Order Code	Price Each			
							1+	10+	100+	250+
0.40	8.5	12.5	3.5	5.0	KBR-400BKTS	648-206†				
0.455	8.5	12.5	3.5	5.0	KBR-455BKTS	648-218†				
0.480	8.0	10.3	3.8	5.0	KBR-455YTR	SMD 648-668†				
0.48	8.5	12.5	3.5	5.0	KBR-480BKTS	648-220†				
0.50	8.0	9.0	3.5	5.0	KBR-500BKTS	573-899				
0.56	8.5	12.5	3.5	5.0	KBR-560BKTS	648-541				
1.00	5.0	9.8	2.3	2.5	KBR-1000F	648-553†				
1.00	5.0	6.3	2.3	2.5	KBR-1000F	573-905				
2.00	12.0	10.0	5.0	5.0	KBR-2.00MS	573-917				
2.00	7.4	2.0	3.4	5.0	PBRC-2.00AR	SMD 574-004				
3.58	12.0	10.0	5.0	5.0	KBR-3.58MSA	573-929				
3.58	7.4	2.0	3.4	5.0	PBRC-3.58AR	SMD 574-016				
3.69	12.0	10.0	5.0	5.0	KBR-3.69MSA	574-089				
4.00	12.0	10.0	5.0	5.0	KBR-4.00MSA	573-930				
4.00	7.4	2.0	5.0	5.0	PBRC-4.00AR	SMD 574-028				
4.19	7.4	2.0	3.4	5.0	PBRC-4.19AR	SMD 648-127				
4.19	10.0	12.5	5.0	5.0	KBR-4.19MSA	648-929				
5.00	10.0	12.5	5.0	5.0	KBR-5.0MSA	648-954				
6.00	10.0	12.5	5.0	5.0	KBR-6.0MSA	651-849				
6.00	7.4	2.0	3.4	5.0	PBRC-6.00AR	SMD 648-139				
8.00	10.0	7.0	5.0	5.0	KBR-8.00M	573-942				
8.00	7.4	2.0	5.0	5.0	PBRC-8.00AR	SMD 574-030				
10.00	10.0	7.0	5.0	5.0	KBR-10.00M	653-068†				
11.0	10.0	12.0	5.0	5.0	KBR-11.0M	653-070				
12.00	10.0	7.0	5.0	5.0	KBR-12.00M	573-954				

† Available until stocks are exhausted