

Fig.	Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
					1	10	100	500			
<b>ECX-64A-EN Industrial Temperature, -40°C ~ 85°C, ±50ppm</b>											
4	80	Series	14.318180	XC980CT-ND	3.51	3.17	2.64	2.11	XC980TR-ND	1756.59	ECS-143-S-23A-EN-TR
	80	20pF	14.318180	XC979CT-ND	3.51	3.17	2.64	2.11	XC979TR-ND	1756.59	ECS-143-20-23A-EN-TR
	80	20pF	14.745600	XC981CT-ND	3.51	3.17	2.64	2.11	XC981TR-ND	1756.59	ECS-147-20-23A-EN-TR
	60	Series	16.000000	XC983CT-ND	3.51	3.17	2.64	2.11	XC983TR-ND	1756.59	ECS-160-S-23A-EN-TR
	60	20pF	16.000000	XC982CT-ND	3.51	3.17	2.64	2.11	XC982TR-ND	1756.59	ECS-160-20-23A-EN-TR
	60	Series	18.432000	XC985CT-ND	3.51	3.17	2.64	2.11	XC985TR-ND	1756.59	ECS-184-S-23A-EN-TR
	60	20pF	18.432000	XC984CT-ND	3.51	3.17	2.64	2.11	XC984TR-ND	1756.59	ECS-184-20-23A-EN-TR
	60	Series	19.660800	XC987CT-ND	3.51	3.17	2.64	2.11	XC987TR-ND	1756.59	ECS-196-S-23A-EN-TR
	60	20pF	19.660800	XC986CT-ND	3.51	3.17	2.64	2.11	XC986TR-ND	1756.59	ECS-196-20-23A-EN-TR
	40	Series	20.000000	XC989CT-ND	3.51	3.17	2.64	2.11	XC989TR-ND	1756.59	ECS-200-S-23A-EN-TR
	40	20pF	20.000000	XC988CT-ND	3.51	3.17	2.64	2.11	XC988TR-ND	1756.59	ECS-200-20-23A-EN-TR
	40	Series	24.000000	XC991CT-ND	3.30	2.97	2.48	1.98	XC991TR-ND	1649.58	ECS-240-S-23A-EN-TR
40	20pF	24.000000	XC990CT-ND	3.30	2.97	2.48	1.98	XC990TR-ND	1649.58	ECS-240-20-23A-EN-TR	
<b>ECX-64A, -10°C ~ 70°C, ±50ppm</b>											
4	80	Series	14.31818	XC822CT-ND	3.94	3.55	2.96	2.37	XC822TR-ND	1971.68	ECS-143-S-23A-TR
	80	20pF	14.31818	XC821CT-ND	3.94	3.55	2.96	2.37	XC821TR-ND	1971.68	ECS-143-20-23A-TR
	80	20pF	14.74560	XC823CT-ND	3.94	3.55	2.96	2.37	XC823TR-ND	1971.68	ECS-147-20-23A-TR
	60	Series	16.00000	XC825CT-ND	3.94	3.55	2.96	2.37	XC825TR-ND	1971.68	ECS-160-S-23A-TR
	60	20pF	16.00000	XC824CT-ND	3.94	3.55	2.96	2.37	XC824TR-ND	1971.68	ECS-160-20-23A-TR
	60	Series	18.43200	XC827CT-ND	3.94	3.55	2.96	2.37	XC827TR-ND	1971.68	ECS-184-S-23A-TR
	60	20pF	18.43200	XC826CT-ND	3.94	3.55	2.96	2.37	XC826TR-ND	1971.68	ECS-184-20-23A-TR
	60	Series	19.66080	XC829CT-ND	3.94	3.55	2.96	2.37	XC829TR-ND	1971.68	ECS-196-S-23A-TR
	60	20pF	19.66080	XC828CT-ND	3.94	3.55	2.96	2.37	XC828TR-ND	1971.68	ECS-196-20-23A-TR
	40	Series	20.00000	XC831CT-ND	3.94	3.55	2.96	2.37	XC831TR-ND	1971.68	ECS-200-S-23A-TR
	40	20pF	20.00000	XC830CT-ND	3.94	3.55	2.96	2.37	XC830TR-ND	1971.68	ECS-200-20-23A-TR
	40	Series	24.00000	XC832CT-ND	3.70	3.34	2.78	2.23	XC832TR-ND	1851.56	ECS-240-S-23A-TR
<b>ECX-64B, -10°C ~ 70°C, ±50ppm</b>											
5	80	9pF	12.00000	XC1022CT-ND	2.33	2.10	1.75	1.40	XC1022TR-ND	1165.09	ECS-120-CD-0330-TR
	80	20pF	12.00000	XC1013CT-ND	4.48	4.04	3.37	2.69	XC1013TR-ND	2240.55	ECS-120-20-23B-TR
	80	Series	14.31818	XC810CT-ND	4.48	4.04	3.37	2.69	XC810TR-ND	2240.55	ECS-143-S-2 3B-TR
	80	20pF	14.31818	XC809CT-ND	4.48	4.04	3.37	2.69	XC809TR-ND	2240.55	ECS-143-20-23B-TR
	80	20pF	14.74560	XC811CT-ND	4.48	4.04	3.37	2.69	XC811TR-ND	2240.55	ECS-147-20-23B-TR
	60	Series	16.00000	XC813CT-ND	4.48	4.04	3.37	2.69	XC813TR-ND	2240.55	ECS-160-S-23B-TR
	60	20pF	16.00000	XC812CT-ND	4.48	4.04	3.37	2.69	XC812TR-ND	2240.55	ECS-160-20-23B-TR
	60	Series	18.43200	XC815CT-ND	4.48	4.04	3.37	2.69	XC815TR-ND	2240.55	ECS-184-S-23B-TR
	60	20pF	18.43200	XC814CT-ND	4.48	4.04	3.37	2.69	XC814TR-ND	2240.55	ECS-184-20-23B-TR
	60	Series	19.66080	XC817CT-ND	4.48	4.04	3.37	2.69	XC817TR-ND	2240.55	ECS-196-S-23B-TR
	60	20pF	19.66080	XC816CT-ND	4.48	4.04	3.37	2.69	XC816TR-ND	2240.55	ECS-196-20-23B-TR
	40	Series	20.00000	XC819CT-ND	4.48	4.04	3.37	2.69	XC819TR-ND	2240.55	ECS-200-S-23B-TR
	40	20pF	20.00000	XC818CT-ND	4.48	4.04	3.37	2.69	XC818TR-ND	2240.55	ECS-200-20-23B-TR
	40	Series	24.00000	XC820CT-ND	4.21	3.79	3.16	2.53	XC820TR-ND	2104.05	ECS-240-S-23B-TR
	40	20pF	24.00000	XC1014CT-ND	4.21	3.79	3.16	2.53	XC1014TR-ND	2104.05	ECS-240-20-23B-TR
	40	18pF	25.00000	XC1015CT-ND	4.21	3.79	3.16	2.53	XC1015TR-ND	2104.05	ECS-250-18-23B-F-TR

\* 3rd Overtone

**Subminiature Surface Mount Quartz Crystals**

Dimensions (mm)			
Series	L	W	H
ECX-53B	5.0	3.2	0.85
ECX-42	4.0	2.5	0.80
ECX-32	3.2	2.5	0.70
ECX-2236	2.5	2.0	0.55
ECX-1637	2.0	1.6	0.45

Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
				1	10	100	500			
<b>ECX-53B-DU Automotive Temperature Range, -55°C ~ 125°C, 5.0 x 3.2 x .85mm</b>										
80	20pF	10.00000	XC1510CT-ND	2.12	1.91	1.59	1.27	XC1510TR-ND	1057.54	ECS-100-20-30B-DU
80	20pF	12.00000	XC1511CT-ND	2.12	1.91	1.59	1.27	XC1511TR-ND	1057.54	ECS-120-20-30B-DU
80	20pF	14.318180	XC1512CT-ND	2.12	1.91	1.59	1.27	XC1512TR-ND	1057.54	ECS-143-20-30B-DU
60	20pF	16.000000	XC1513CT-ND	2.12	1.91	1.59	1.27	XC1513TR-ND	1057.54	ECS-160-20-30B-DU
40	20pF	20.000000	XC1514CT-ND	2.12	1.91	1.59	1.27	XC1514TR-ND	1057.54	ECS-200-20-30B-DU
30	20pF	24.000000	XC1515CT-ND	1.99	1.79	1.49	1.20	XC1515TR-ND	993.11	ECS-240-20-30B-DU
30	20pF	25.000000	XC1516CT-ND	1.99	1.79	1.49	1.20	XC1516TR-ND	993.11	ECS-250-20-30B-DU
30	20pF	27.000000	XC1517CT-ND	1.99	1.79	1.49	1.20	XC1517TR-ND	993.11	ECS-270-20-30B-DU
30	20pF	30.000000	XC1518CT-ND	1.99	1.79	1.49	1.20	XC1518TR-ND	993.11	ECS-300-20-30B-DU
30	20pF	32.000000	XC1519CT-ND	1.99	1.79	1.49	1.20	XC1519TR-ND	993.11	ECS-320-20-30B-DU
30	20pF	40.000000	XC1520CT-ND	2.32	2.10	1.75	1.40	XC1520TR-ND	1161.44	ECS-400-20-30B-DU
30	20pF	48.000000	XC1521CT-ND	2.66	2.40	2.00	1.60	XC1521TR-ND	1329.76	ECS-480-20-30B-DU
<b>ECX-53B, -20°C ~ 70°C, ±50ppm, 5.0 x 3.2 x .85mm</b>										
80	20pF	10.000000	XC1117CT-ND	2.12	1.91	1.59	1.27	XC1117TR-ND	1057.54	ECS-100-20-30B-TR
80	20pF	12.000000	XC1118CT-ND	2.12	1.91	1.59	1.27	XC1118TR-ND	1057.54	ECS-120-20-30B-TR
80	20pF	14.318180	XC1119CT-ND	2.12	1.91	1.59	1.27	XC1119TR-ND	1057.54	ECS-143-20-30B-TR
60	20pF	16.000000	XC1120CT-ND	2.12	1.91	1.59	1.27	XC1120TR-ND	1057.54	ECS-160-20-30B-TR
50	20pF	20.000000	XC1121CT-ND	2.12	1.91	1.59	1.27	XC1121TR-ND	1057.54	ECS-200-20-30B-TR
50	20pF	24.000000	XC1122CT-ND	1.99	1.79	1.49	1.20	XC1122TR-ND	993.11	ECS-240-20-30B-TR
50	20pF	24.576000	XC1123CT-ND	1.99	1.79	1.49	1.20	XC1123TR-ND	993.11	ECS-245-20-30B-TR
50	20pF	25.000000	XC1124CT-ND	1.99	1.79	1.49	1.20	XC1124TR-ND	993.11	ECS-250-20-30B-TR
50	Series	27.000000	XC1126CT-ND	2.32	2.10	1.75	1.40	XC1126TR-ND	1161.44	ECS-270-S-30B-TR
50	20pF	27.000000	XC1125CT-ND	1.99	1.79	1.49	1.20	XC1125TR-ND	993.11	ECS-270-20-30B-TR
50	Series	30.000000	XC1128CT-ND	2.32	2.10	1.75	1.40	XC1128TR-ND	1161.44	ECS-300-S-30B-TR
50	20pF	32.000000	XC1129CT-ND	2.32	2.10	1.75	1.40	XC1129TR-ND	1161.44	ECS-320-20-30B-TR
50	Series	36.000000	XC1132CT-ND	2.32	2.10	1.75	1.40	XC1132TR-ND	1161.44	ECS-360-S-30B-TR
50	20pF	36.000000	XC1131CT-ND	2.32	2.10	1.75	1.40	XC1131TR-ND	1161.44	ECS-360-20-30B-TR
50	20pF	40.000000	XC1133CT-ND	2.66	2.40	2.00	1.60	XC1133TR-ND	1329.76	ECS-400-20-30B-TR
50	20pF	50.000000	XC1135CT-ND	2.66	2.40	2.00	1.60	XC1135TR-ND	1329.76	ECS-500-20-30B-TR
<b>ECX-42 For Bluetooth™ and Zigbee Applications, ±10±10, -20°C ~ 70°C, 4.0 x 2.5 x .80mm</b>										
80	9pF	12.000000	XC1608CT-ND	1.97	1.78	1.48	1.19	XC1608TR-ND	985.84	ECS-120-9-42-CKM-TR
80	9pF	13.000000	XC1609CT-ND	1.97	1.78	1.48	1.19	XC1609TR-ND	985.84	ECS-130-9-42-CKM-TR

(Continued)

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