

ECS INC. Through-Hole Quartz Crystals (Cont.)

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
2	16.000000	20pF	X176-ND	.40	.36	.29	.26	ECS-160-20-4
	16.000310	18pF	X177-ND	.40	.36	.29	.26	ECS-160.003-18-4
	16.257000	Series	X434-ND	.40	.36	.29	.26	ECS-162.5-S-4
	16.257000	20pF	X039-ND	.52	.43	.35	.27	ECS-162.5-20-4
	18.000000	Series	X435-ND	.40	.36	.29	.26	ECS-180-S-4
	18.000000	20pF	X178-ND	.40	.36	.29	.26	ECS-180-20-4
	18.432000	Series	X436-ND	.40	.36	.29	.26	ECS-184-S-4
	18.432000	18pF	X179-ND	.40	.36	.29	.26	ECS-184-18-4
	18.432000	20pF	X180-ND	.40	.36	.29	.26	ECS-184-20-4
	19.660800	Series	X437-ND	.40	.36	.29	.26	ECS-196.6-S-4
	19.660800	20pF	X181-ND	.40	.36	.29	.26	ECS-196.6-20-4
	20.000000	Series	X438-ND	.40	.36	.29	.26	ECS-200-S-4
	20.000000	20pF	X439-ND	.40	.36	.29	.26	ECS-200-20-4
	20.480000	20pF	X229-ND	.40	.36	.29	.26	ECS-204.8-20-4
	21.477270	Series	X044-ND	.52	.43	.35	.27	ECS-214.7-S-4
	22.118400	Series	X182-ND	.40	.36	.29	.26	ECS-221-S-4
	24.000000	Series	X440-ND	.40	.36	.29	.26	ECS-240-S-4
	24.000000	16pF	X441-ND	.40	.36	.29	.26	ECS-240-16-4
	24.000000	20pF	X442-ND	.40	.36	.29	.26	ECS-240-20-4
	24.000140	18pF	X183-ND	.40	.36	.29	.26	ECS-240.001-18-4
24.576000	20pF	X230-ND	.40	.36	.29	.26	ECS-245.7-20-4	
25.000000	18pF	X231-ND	.40	.36	.29	.26	ECS-250-18-4-F	
48.000000	20pF	XC942-ND	.40	.36	.29	.26	ECS-480-20-4	
HC-49USX — RoHS Compliant								
2	3.579550	Series	X1086-ND	.40	.36	.29	.26	ECS-35-S-4X
	3.579550	17pF	X1085-ND	.40	.36	.29	.26	ECS-35-17-4X
	3.686400	Series	X1043-ND	.40	.36	.29	.26	ECS-36-S-4X
	3.686400	18pF	X1042-ND	.40	.36	.29	.26	ECS-36-18-4X
	4.000000	Series	X1044-ND	.40	.36	.29	.26	ECS-40-S-4X
	4.000000	20pF	X1045-ND	.40	.36	.29	.26	ECS-40-20-4X
	4.032000	20pF	X1087-ND	.40	.36	.29	.26	ECS-40.3-20-4X
	4.096000	20pF	X1089-ND	.40	.36	.29	.26	ECS-41-20-4X
	4.194304	12pF	X1046-ND	.40	.36	.29	.26	ECS-42-12-4X
	4.194304	16pF	X1090-ND	.40	.36	.29	.26	ECS-42-16-4X
	4.433618	20pF	X1047-ND	.40	.36	.29	.26	ECS-44-20-4X
	4.915200	Series	X1048-ND	.40	.36	.29	.26	ECS-49-S-4X
	4.915200	20pF	X1049-ND	.40	.36	.29	.26	ECS-49-20-4X
	5.000000	Series	X1091-ND	.40	.36	.29	.26	ECS-50-S-4X
	5.000000	20pF	X1050-ND	.40	.36	.29	.26	ECS-50-20-4X
	5.068000	20pF	X1051-ND	.40	.36	.29	.26	ECS-51-20-4X
	6.000000	Series	X1052-ND	.40	.36	.29	.26	ECS-60-S-4X
	6.000000	32pF	X1053-ND	.40	.36	.29	.26	ECS-60-32-4X
	6.144000	32pF	X1054-ND	.40	.36	.29	.26	ECS-61-32-4X
	6.500000	20pF	X1055-ND	.40	.36	.29	.26	ECS-65-20-4X
7.372800	Series	X1056-ND	.40	.36	.29	.26	ECS-73-S-4X	
7.372800	20pF	X1084-ND	.52	.43	.35	.27	ECS-73-20-4X	
7.680000	20pF	X1092-ND	.40	.36	.29	.26	ECS-76.8-20-4X	
8.000000	Series	X1057-ND	.40	.36	.29	.26	ECS-80-S-4X	
8.000000	18pF	X1093-ND	.40	.36	.29	.26	ECS-80-18-4X	
8.000000	20pF	X1094-ND	.40	.36	.29	.26	ECS-80-20-4X	
8.000000	32pF	X1095-ND	.40	.36	.29	.26	ECS-80-32-4X	
8.500000	Series	X1058-ND	.40	.36	.29	.26	ECS-85-S-4X	
9.000000	Series	X1059-ND	.40	.36	.29	.26	ECS-90-S-4X	
9.216000	20pF	X1096-ND	.40	.36	.29	.26	ECS-92.1-20-4X	
9.830400	Series	X1060-ND	.40	.36	.29	.26	ECS-98.3-S-4X	
9.830400	20pF	X1097-ND	.40	.36	.29	.26	ECS-98.3-20-4X	
10.000000	Series	X1061-ND	.40	.36	.29	.26	ECS-100-S-4X	
10.000000	18pF	X1080-ND	.40	.36	.29	.26	ECS-100-18-4X	
10.738640	Series	X1062-ND	.40	.36	.29	.26	ECS-107.3-S-4X	
11.000000	Series	X1063-ND	.40	.36	.29	.26	ECS-110-S-4X	
11.059200	Series	X1064-ND	.40	.36	.29	.26	ECS-110.5-S-4X	
11.059200	20pF	X1065-ND	.40	.36	.29	.26	ECS-110.5-20-4X	
11.059200	32pF	X1098-ND	.40	.36	.29	.26	ECS-110.5-32-4X	
11.520000	Series	X1099-ND	.40	.36	.29	.26	ECS-115.2-S-4X	
11.981350	Series	X1066-ND	.40	.36	.29	.26	ECS-119.8-S-4X	
12.000000	Series	X1067-ND	.40	.36	.29	.26	ECS-120-S-4X	
12.000000	20pF	X1037-ND	.40	.36	.29	.26	ECS-120-20-4X	
12.000000	32pF	X1100-ND	.40	.36	.29	.26	ECS-120-32-4X	
12.288000	Series	X1101-ND	.40	.36	.29	.26	ECS-122.8-S-4X	
12.288000	20pF	X1038-ND	.40	.36	.29	.26	ECS-122.8-20-4X	
12.960000	18pF	X1083-ND	.52	.43	.35	.27	ECS-129.6-18-4X	
14.318180	Series	X1068-ND	.40	.36	.29	.26	ECS-143-S-4X	
14.318180	20pF	X1081-ND	.40	.36	.29	.26	ECS-143-20-4X	
14.745600	Series	X1069-ND	.40	.36	.29	.26	ECS-147.4-S-4X	
14.745600	20pF	X1102-ND	.40	.36	.29	.26	ECS-147.4-20-4X	
15.000000	Series	X1070-ND	.40	.36	.29	.26	ECS-150-S-4X	
15.360000	20pF	X1082-ND	.52	.43	.35	.27	ECS-153-20-4X	
16.000000	Series	X1071-ND	.40	.36	.29	.26	ECS-160-S-4X	
16.000000	20pF	X1103-ND	.40	.36	.29	.26	ECS-160-20-4X	
16.000310	18pF	X1104-ND	.40	.36	.29	.26	ECS-160.003-18-4X	
18.000000	Series	X1072-ND	.40	.36	.29	.26	ECS-180-S-4X	
18.000000	20pF	X1105-ND	.40	.36	.29	.26	ECS-180-20-4X	
18.432000	Series	X1073-ND	.40	.36	.29	.26	ECS-184-S-4X	
18.432000	18pF	X1106-ND	.40	.36	.29	.26	ECS-184-18-4X	
18.432000	20pF	X1107-ND	.40	.36	.29	.26	ECS-184-20-4X	
19.660800	Series	X1074-ND	.40	.36	.29	.26	ECS-196.6-S-4X	
19.660800	20pF	X1108-ND	.40	.36	.29	.26	ECS-196.6-20-4X	
20.000000	Series	X1075-ND	.40	.36	.29	.26	ECS-200-S-4X	
20.000000	20pF	X1076-ND	.40	.36	.29	.26	ECS-200-20-4X	

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
2	20.480000	20pF	X1039-ND	.40	.36	.29	.26	ECS-204.8-20-4X
	22.118400	Series	X1109-ND	.40	.36	.29	.26	ECS-221-S-4X
	24.000000	Series	X1077-ND	.40	.36	.29	.26	ECS-240-S-4X
	24.000000	12pF	XC1005-ND	.40	.36	.29	.26	ECS-240-12-4X
	24.000000	16pF	X1078-ND	.40	.36	.29	.26	ECS-240-16-4X
	24.000000	20pF	X1079-ND	.40	.36	.29	.26	ECS-240-20-4X
	24.576000	20pF	X1040-ND	.40	.36	.29	.26	ECS-245.7-20-4X
	25.000000	18pF	X1041-ND	.40	.36	.29	.26	ECS-250-18-4X-F
	27.000000	18pF	XC1006-ND	.40	.36	.29	.26	ECS-270-18-4X-F
	HC-49USX-EN — RoHS Compliant							
2	3.579545	18pF	XC1707-ND	.38	.35	.28	.25	ECS-35-18-4XEN
	4.000000	18pF	XC1708-ND	.38	.35	.28	.25	ECS-40-18-4XEN
	4.194304	19pF	XC1709-ND	.38	.35	.28	.25	ECS-42-18-4XEN
	4.915200	18pF	XC1710-ND	.38	.35	.28	.25	ECS-49-18-4XEN
	5.000000	18pF	XC1711-ND	.38	.35	.28	.25	ECS-50-18-4XEN
	6.000000	18pF	XC1712-ND	.38	.35	.28	.25	ECS-60-18-4XEN
	7.372800	18pF	XC1713-ND	.38	.35	.28	.25	ECS-73-18-4XEN
	9.216000	18pF	XC1714-ND	.38	.35	.28	.25	ECS-92.1-18-4XEN
	9.830400	18pF	XC1715-ND	.38	.35	.28	.25	ECS-98.3-18-4XEN
	11.059200	18pF	XC1716-ND	.38	.35	.28	.25	ECS-110.5-18-4XEN
	12.000000	18pF	XC1717-ND	.38	.35	.28	.25	ECS-120-18-4XEN
	12.288000	18pF	XC1718-ND	.38	.35	.28	.25	ECS-122.8-18-4XEN
	13.516800	18pF	XC1731-ND	.38	.35	.28	.25	ECS-147.4-18-4XEN
	13.516800	18pF	XC1720-ND	.38	.35	.28	.25	ECS-143-18-4XEN
	14.318180	18pF	XC1719-ND	.38	.35	.28	.25	ECS-143-18-4XEN
	16.000000	19pF	XC1721-ND	.38	.35	.28	.25	ECS-160-18-4XEN
	16.384000	18pF	XC1722-ND	.38	.35	.28	.25	ECS-163.8-18-4XEN
	20.000000	18pF	XC1723-ND	.38	.35	.28	.25	ECS-200-18-4XEN
	22.118400	18pF	XC1724-ND	.38	.35	.28	.25	ECS-221-18-4XEN
	24.000000	18pF	XC1725-ND	.38	.35	.28	.25	ECS-240-18-4XEN
24.576000	18pF	XC1726-ND	.38	.35	.28	.25	ECS-245.7-18-4XEN	
28.224000	18pF	XC1727-ND	.38	.35	.28	.25	ECS-282.24-18-4X-F-EN	
28.636360	18pF	XC1728-ND	.38	.35	.28	.25	ECS-286.3-18-4X-F-EN	
40.000000	18pF	XC1729-ND	.38	.35	.28	.25	ECS-400-18-4XEN	
50.000000	18pF	XC1730-ND	.38	.35	.28	.25	ECS-500-18-4XEN	
HC-49US-DN, Industrial Temperature Range: -40°C - 85°C								
2	3.579550	17pF	X184-ND	.55	.50	.40	.36	ECS-35-17-4DN
	3.686400	20pF	X185-ND	.55	.50	.40	.36	ECS-36-20-4DN
	4.000000	20pF	X186-ND	.55	.50	.40	.36	ECS-40-20-4DN
	6.000000	32pF	X187-ND	.55	.50	.40	.36	ECS-60-32-4DN
	7.372800	20pF	X188-ND	.55	.50	.40	.36	ECS-73-20-4DN
	8.000000	18pF	X189-ND	.55	.50	.40	.36	ECS-80-18-4DN
	12.000000	20pF	X190					