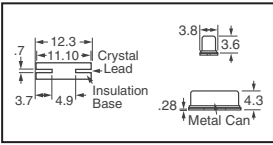


CTS[®] ATS-SM Series Crystals



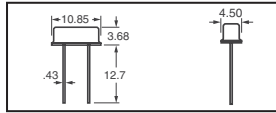
Specifications:
 • Frequency Tolerance: ±30ppm @ 25°C • Shunt Capacitance: 7.0pF Maximum • Max Drive Level: 1,000mW
 • Frequency Stability: ±50ppm • Operating Temperature: -20°C ~ 70°C • Operating Mode: Fundamental

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	CTS Part No.	
			1	10	50				100
3.579545	18.0pF	CTX500CT-ND	1.27	1.10	.96	.76	CTX500TR-ND	470.87	ATS036SM-T
3.686400	18.0pF	CTX878CT-ND	.42	.37	.32	.26	CTX878TR-ND	155.84	ATS037BSM-1
3.686400	20.0pF	CTX501CT-ND	1.27	1.10	.96	.76	CTX501TR-ND	470.87	ATS037SM-T
4.000000	18.0pF	CTX879CT-ND	.42	.37	.32	.26	CTX879TR-ND	155.84	ATS040BSM-1
4.000000	20.0pF	CTX502CT-ND	1.27	1.10	.96	.76	CTX502TR-ND	470.87	ATS040SM-T
4.915200	18.0pF	CTX880CT-ND	.50	.44	.38	.31	CTX880TR-ND	187.23	ATS049BSM-1
4.915200	20.0pF	CTX503CT-ND	1.27	1.10	.96	.76	CTX503TR-ND	470.87	ATS042SM-T
5.000000	18.0pF	CTX881CT-ND	.42	.37	.32	.26	CTX881TR-ND	155.84	ATS050BSM-1
5.068800	20.0pF	CTX504CT-ND	1.27	1.10	.96	.76	CTX504TR-ND	470.87	ATS050SM-T
6.000000	18.0pF	CTX882CT-ND	.42	.37	.32	.26	CTX882TR-ND	155.84	ATS060BSM-1
6.000000	20.0pF	CTX505CT-ND	1.27	1.10	.96	.76	CTX505TR-ND	470.87	ATS060SM-T
6.144000	18.0pF	CTX883CT-ND	.42	.37	.32	.26	CTX883TR-ND	155.84	ATS061BSM-1
8.000000	18.0pF	CTX884CT-ND	.42	.37	.32	.26	CTX884TR-ND	155.84	ATS080BSM-1
8.000000	20.0pF	CTX506CT-ND	1.27	1.10	.96	.76	CTX506TR-ND	470.87	ATS08ASM-T
9.830400	18.0pF	CTX885CT-ND	.42	.37	.32	.26	CTX885TR-ND	155.84	ATS098BSM-1
9.830400	20.0pF	CTX507CT-ND	1.27	1.10	.96	.76	CTX507TR-ND	470.87	ATS098SM-T
10.000000	18.0pF	CTX886CT-ND	.42	.37	.32	.26	CTX886TR-ND	155.84	ATS100BSM-1
10.000000	Series	CTX508CT-ND	1.27	1.10	.96	.76	CTX508TR-ND	470.87	ATS100SM-T
11.059200	18.0pF	CTX887CT-ND	.50	.44	.38	.31	CTX887TR-ND	187.23	ATS111BSM-1
11.059200	20.0pF	CTX509CT-ND	1.27	1.10	.96	.76	CTX509TR-ND	470.87	ATS111SM-T
12.000000	18.0pF	CTX888CT-ND	.42	.37	.32	.26	CTX888TR-ND	155.84	ATS120BSM-1
12.000000	Series	CTX510CT-ND	1.27	1.10	.96	.76	CTX510TR-ND	470.87	ATS120SM-T
12.288000	18.0pF	CTX889CT-ND	.40	.35	.31	.24	CTX889TR-ND	149.11	ATS122BSM-1
12.288000	20.0pF	CTX511CT-ND	1.27	1.10	.96	.76	CTX511TR-ND	470.87	ATS122SM-T
14.318180	18.0pF	CTX890CT-ND	.40	.35	.31	.24	CTX890TR-ND	149.11	ATS143BSM-1
14.318180	Series	CTX512CT-ND	1.27	1.10	.96	.76	CTX512TR-ND	470.87	ATS143SM-T
14.745600	18.0pF	CTX892CT-ND	.42	.37	.32	.26	CTX892TR-ND	155.84	ATS147BSM-1
14.745600	20.0pF	CTX891CT-ND	.42	.37	.32	.26	CTX891TR-ND	155.84	ATS147ASM-1
15.360000	20.0pF	CTX513CT-ND	1.18	1.01	.85	.68	CTX513TR-ND	470.87	ATS15ASM-T
16.000000	Series	CTX514CT-ND	1.27	1.10	.96	.76	CTX514TR-ND	470.87	ATS160SM-T
20.000000	18.0pF	CTX893CT-ND	.42	.37	.32	.26	CTX893TR-ND	155.84	ATS200CSM-1
20.000000	Series	CTX515CT-ND	1.27	1.10	.96	.76	CTX515TR-ND	470.87	ATS200SM-T
20.480000	20.0pF	CTX516CT-ND	1.56	1.36	1.19	.94	CTX516TR-ND	582.98	ATS204SM-T
24.576000	18.0pF	CTX894CT-ND	.42	.37	.32	.26	CTX894TR-ND	155.84	ATS245ASM-1
24.576000	Series	CTX517CT-ND	1.56	1.36	1.19	.94	CTX517TR-ND	582.98	ATS245SM-T

ATS Series Crystals



Specifications:
 • Frequency Tolerance: ±30ppm @ 25°C
 • Shunt Capacitance: 7pF Maximum
 • Max Drive Level: 1,000mW
 • Frequency Stability: ±50ppm
 • Operating Mode: Fundamental



Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each			CTS Part No.
			1	50	100	
±50ppm Frequency Stability -20°C ~ 70°C						
3.579545	18.0pF	CTX400-ND	.66	.58	.48	ATS036
3.686400	18.0pF	CTX895-ND	.34	.30	.25	ATS037B
3.686400	20.0pF	CTX401-ND	.66	.58	.48	ATS037
4.000000	18.0pF	CTX896-ND	.34	.30	.25	ATS040B
4.000000	20.0pF	CTX402-ND	.60	.52	.43	ATS040
4.915200	18.0pF	CTX897-ND	.34	.30	.25	ATS049B
4.915200	20.0pF	CTX403-ND	.60	.52	.43	ATS042
5.068800	20.0pF	CTX404-ND	.60	.52	.43	ATS050
6.000000	18.0pF	CTX898-ND	.34	.30	.25	ATS060B
6.000000	20.0pF	CTX405-ND	.60	.52	.43	ATS060
6.144000	18.0pF	CTX899-ND	.34	.30	.25	ATS061B
8.000000	18.0pF	CTX900-ND	.34	.30	.25	ATS080B
8.000000	20.0pF	CTX406-ND	.60	.52	.43	ATS08A
9.830400	18.0pF	CTX901-ND	.34	.30	.25	ATS098B
9.830400	20.0pF	CTX407-ND	.60	.52	.43	ATS098
10.000000	18.0pF	CTX902-ND	.34	.30	.25	ATS100B
10.000000	Series	CTX408-ND	.60	.52	.43	ATS100
11.059200	18.0pF	CTX903-ND	.34	.30	.25	ATS111B
11.059200	20.0pF	CTX409-ND	.60	.52	.43	ATS111
12.000000	18.0pF	CTX904-ND	.34	.30	.25	ATS120B
12.000000	Series	CTX410-ND	.60	.52	.43	ATS120
12.288000	18.0pF	CTX905-ND	.34	.30	.25	ATS122B
12.288000	20.0pF	CTX411-ND	.60	.52	.43	ATS122
14.318180	18.0pF	CTX906-ND	.34	.30	.25	ATS143B
14.318180	Series	CTX412-ND	.60	.52	.43	ATS143
14.745600	18.0pF	CTX908-ND	.34	.30	.25	ATS147B
14.745600	20.0pF	CTX907-ND	.34	.30	.25	ATS147A
15.360000	20.0pF	CTX413-ND	.60	.52	.43	ATS15A
16.000000	Series	CTX414-ND	.60	.52	.43	ATS160
16.000000	20.0pF	CTX415-ND	.60	.52	.43	ATS16A

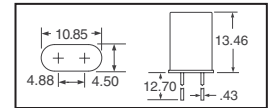
Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each				CTS Part No.
			1	50	100	200	
20.000000	18.0pF	CTX909-ND	.34	.30	.25	.20	ATS200C
20.000000	Series	CTX416-ND	.60	.52	.43	.35	ATS200
20.480000	20.0pF	CTX417-ND	.38	.33	.28	.22	ATS204
24.576000	18.0pF	CTX910-ND	.34	.30	.25	.20	ATS245A
24.576000	Series	CTX418-ND	1.01	.87	.73	.58	ATS245
25.000000	18.0pF	CTX911-ND	.50	.43	.36	.29	ATS250B
25.000000	Series	CTX419-ND	1.01	.87	.73	.58	ATS250
±50ppm Frequency Stability -40°C ~ 85°C							
3.6864000	18.0pF	CTX912-ND	.39	.34	.28	.23	ATS037B-E
4.0000000	18.0pF	CTX913-ND	.51	.44	.37	.30	ATS040B-E
4.9152000	18.0pF	CTX914-ND	.39	.34	.28	.23	ATS049B-E
6.0000000	18.0pF	CTX915-ND	.41	.36	.30	.24	ATS060B-E
6.1440000	18.0pF	CTX916-ND	.39	.34	.28	.23	ATS061B-E
8.0000000	18.0pF	CTX917-ND	.39	.34	.28	.23	ATS098B-E
9.8304000	18.0pF	CTX918-ND	.39	.34	.28	.23	ATS098B-E
10.0000000	18.0pF	CTX919-ND	.39	.34	.28	.23	ATS100B-E
11.0592000	18.0pF	CTX920-ND	.39	.34	.28	.23	ATS111B-E
12.0000000	18.0pF	CTX921-ND	.39	.34	.28	.23	ATS120B-E
12.2880000	18.0pF	CTX922-ND	.39	.34	.28	.23	ATS122B-E
14.3181800	18.0pF	CTX923-ND	.39	.34	.28	.23	ATS143B-E
14.7456000	18.0pF	CTX925-ND	.39	.34	.28	.23	ATS147B-E
14.7456000	20.0pF	CTX924-ND	.39	.34	.28	.23	ATS147A-E
20.0000000	18.0pF	CTX926-ND	.39	.34	.28	.23	ATS200C-E
24.5760000	18.0pF	CTX927-ND	.39	.34	.28	.23	ATS245A-E
25.0000000	18.0pF	CTX928-ND	.44	.38	.32	.26	ATS250B-E

HC49INS-ND Base Insulator..... .72/10 6.01/100

Microprocessor Crystals



Specifications:
 • Frequency Tolerance: ±30ppm @ 25°C
 • Operating Temperature: -20°C ~ 70°C
 • Fully hermetic resistance weld package



Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each			CTS Part No.
			1	10	100	
±50ppm Frequency Stability -20°C ~ 70°C						
1.843200	13.0pF	CTX067-ND	1.47	1.26	.84	MP018S
2.000000	18.0pF	CTX860-ND	1.23	1.06	.71	MP020B
2.000000	20.0pF	CTX068-ND	1.47	1.26	.84	MP020S
2.457600	32.0pF	CTX069-ND	1.47	1.26	.84	MP024S
3.579545	18.0pF	CTX049-ND	.60	.52	.35	MP036S
3.686400	18.0pF	CTX861-ND	.49	.42	.28	MP037B
3.686400	20.0pF	CTX071-ND	.60	.52	.35	MP037
4.000000	Series	CTX080-ND	.60	.52	.35	MP04A
4.000000	18.0pF	CTX862-ND	.49	.42	.28	MP040B
4.000000	20.0pF	CTX006-ND	.60	.52	.35	MP040
4.194304	12.0pF	CTX007-ND	.60	.52	.35	MP041
4.915200	18.0pF	CTX863-ND	.49	.42	.28	MP049B
4.915200	20.0pF	CTX050-ND	.60	.52	.35	MP042
5.000000	Series	CTX081-ND	.60	.52	.35	MP05B
5.000000	18.0pF	CTX864-ND	.49	.42	.28	MP050C
5.000000	20.0pF	CTX051-ND	.60	.52	.35	MP05A
5.068800	Series	CTX052-ND	.60	.52	.35	MP050
6.000000	18.0pF	CTX865-ND	.49	.42	.28	MP060B
6.000000	20.0pF	CTX026-ND	.60	.52	.35	MP060
6.144000	20.0pF	CTX054-ND	.60	.52	.35	MP061
7.372800	Series	CTX074-ND	.60	.52	.35	MP073
8.000000	Series	CTX056-ND	.60	.52	.35	MP080
8.000000	18.0pF	CTX866-ND	.49	.42	.28	MP080B
8.000000	20.0pF	CTX082-ND	.60	.52	.35	MP08A
9.830400	18.0pF	CTX867-ND	.49	.42	.28	MP098B
9.830400	20.0pF	CTX084-ND	.60	.52	.35	MP098
10.000000	Series	CTX057-ND	.60	.52	.35	MP100
10.000000	30.0pF	CTX083-ND	.60	.52	.35	MP101
10.738635	32.0pF	CTX085-ND	.60	.52	.35	MP107
11.000000	18.0pF	CTX086-ND	.60	.52	.35	MP110
11.059200	Series	CTX078-ND	.60	.52	.35	MP111
12.000000	Series	CTX058-ND	.60	.52	.35	MP120
12.288000	32.0pF	CTX087-ND	.60	.52	.35	MP122
14.318180	Series	CTX088-ND	.60	.52	.35	MP143
14.318180	18.0pF	CTX868-ND	.49	.42	.28	MP143B
14.745600	Series	CTX089-ND	.60	.52	.35	MP147
15.000000	Series	CTX059-ND	.60	.52	.35	MP150
16.000000	Series	CTX077-ND	.60	.52	.35	MP160
18.432000	Series	CTX061-ND	.60	.52	.35	MP184
19.668800	Series	CTX090-ND	.60	.52	.35	MP196
20.000000	Series	CTX062-ND	.60	.52	.35	MP200
22.118400	20.0pF	CTX063-ND	.60	.52	.35	MP221