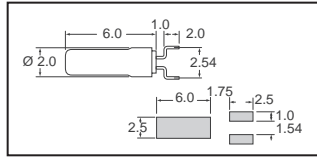


**CMR200T Series**

**SPECIFICATIONS:**

- Frequency Tolerance: ±20ppm
- Operating Temperature Range: -40°C to +85°C
- Storage Temperature Range: -55°C to +125°C
- Shunt Capacitance: 1.35pF
- Drive Level: 1µW Max.
- Insulation Resistance: 500MΩ Min.
- Aging (First Year): ±3ppm Max.

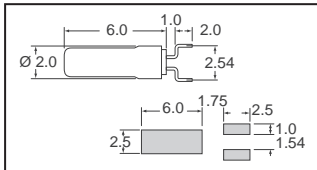


Freq. (KHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
			1	10	50			
32.768	12.5	300-2065-1-ND	.81	.69	.52	300-2065-2-ND	322.00/M	CMR200TB32.768KDZFT
	6	300-2066-1-ND	.81	.69	.52	300-2066-2-ND	322.00/M	CMR200TB32.768KDZBTR

**CMR250T Series**

**SPECIFICATIONS:**

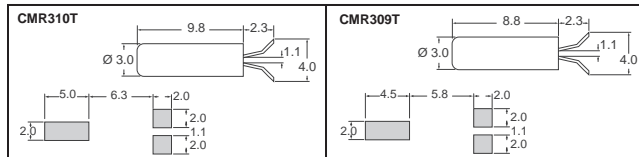
- Frequency Tolerance: ±30ppm
- Operating Temperature Range: -40°C to +85°C
- Storage Temperature Range: -55°C to +125°C
- Load Capacitance: 12.5pF
- Shunt Capacitance: 0.8 to 1.7pF
- Drive Level: 1µW Max.
- Insulation Resistance: 500MΩ Min.
- Aging (First Year): ±5ppm Max.



Frequency (KHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
		1	10	50			
32.000	300-2057-1-ND	1.75	1.50	1.13	300-2057-2-ND	700.00/M	CMR250TB32.000KAZFT
40.000	300-2058-1-ND	1.75	1.50	1.13	300-2058-2-ND	700.00/M	CMR250TB40.000KAZFT
60.000	300-2059-1-ND	1.75	1.50	1.13	300-2059-2-ND	700.00/M	CMR250TB60.000KAZFT
65.535	300-2060-1-ND	1.75	1.50	1.13	300-2060-2-ND	700.00/M	CMR250TB65.535KAZFT
75.000	300-2061-1-ND	1.75	1.50	1.13	300-2061-2-ND	700.00/M	CMR250TB75.000KAZFT
76.800	300-2062-1-ND	1.75	1.50	1.13	300-2062-2-ND	700.00/M	CMR250TB76.8KAZFT
96.000	300-2063-1-ND	1.75	1.50	1.13	300-2063-2-ND	700.00/M	CMR250TB96.000KAZFT
100.000	300-2064-1-ND	1.75	1.50	1.13	300-2064-2-ND	700.00/M	CMR250TB100.000KAZFT

**CMR310T and CMR309T Series**

**SPECIFICATIONS:** • Frequency Tolerance: ±30ppm at 25°C • Frequency Temperature Characteristics: ±50ppm (-10° to +60°C) • Operating Temperature Range: -40°C to +85°C • Storage Temperature Range: -55°C to +125°C • Load Capacitance: 18.0pF • Shunt Capacitance: 5.0pF • Drive Level: 50µW to 100µW • Insulation Resistance: 500MΩ Min. • Aging (First Year): ±5ppm Max. • Mode of Oscillation: Fundamental: 3.579545MHz to 27.000MHz; Third Overtone: 32.000MHz to 66.666MHz



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
		1	10	50			
<i>CMR310T Series</i>							
3.5795450	300-2067-1-ND	1.05	90	.68	300-2067-2-ND	525.00	CMR310T3.579545MABJTR
3.6864000	300-2068-1-ND	1.05	90	.68	300-2068-2-ND	525.00	CMR310T3.6864MABJTR
<i>CMR309T Series</i>							
4.0000000	300-2069-1-ND	1.05	90	.68	300-2069-2-ND	525.00	CMR309T4.000MABJTR
4.0960000	300-2070-1-ND	1.05	90	.68	300-2070-2-ND	525.00	CMR309T4.096MABJTR
4.9152000	300-2071-1-ND	1.05	90	.68	300-2071-2-ND	525.00	CMR309T4.9152MABJTR
5.0000000	300-2072-1-ND	1.05	90	.68	300-2072-2-ND	525.00	CMR309T5.000MABJTR
6.0000000	300-2073-1-ND	1.05	90	.68	300-2073-2-ND	525.00	CMR309T6.000MABJTR
7.3728000	300-2074-1-ND	1.05	90	.68	300-2074-2-ND	525.00	CMR309T7.3728MABJTR
8.0000000	300-2075-1-ND	1.05	90	.68	300-2075-2-ND	525.00	CMR309T8.000MABJTR
9.8304000	300-2076-1-ND	1.05	90	.68	300-2076-2-ND	525.00	CMR309T9.8304MABJTR
10.0000000	300-2077-1-ND	1.05	90	.68	300-2077-2-ND	525.00	CMR309T10.000MABJTR
11.0592000	300-2078-1-ND	1.05	90	.68	300-2078-2-ND	525.00	CMR309T11.0592MABJTR
12.0000000	300-2079-1-ND	1.05	90	.68	300-2079-2-ND	525.00	CMR309T12.000MABJTR
12.2880000	300-2080-1-ND	1.05	90	.68	300-2080-2-ND	525.00	CMR309T12.288MABJTR
14.3181800	300-2081-1-ND	1.05	90	.68	300-2081-2-ND	525.00	CMR309T14.31818MABJTR
16.0000000	300-2082-1-ND	1.05	90	.68	300-2082-2-ND	525.00	CMR309T16.000MABJTR
16.3840000	300-2083-1-ND	1.05	90	.68	300-2083-2-ND	525.00	CMR309T16.384MABJTR
18.4320000	300-2084-1-ND	1.05	90	.68	300-2084-2-ND	525.00	CMR309T18.432MABJTR
22.1184000	300-2085-1-ND	1.05	90	.68	300-2085-2-ND	525.00	CMR309T22.1184MABJTR
24.0000000	300-2086-1-ND	1.05	90	.68	300-2086-2-ND	525.00	CMR309T24.000MABJTR
24.5760000	300-2087-1-ND	1.05	90	.68	300-2087-2-ND	525.00	CMR309T24.576MABJTR
27.0000000	300-2088-1-ND	1.05	90	.68	300-2088-2-ND	525.00	CMR309T27.000MABJTR
32.0000000	300-2089-1-ND	1.05	90	.68	300-2089-2-ND	525.00	CMR309T32.000MABJTR
40.0000000	300-2090-1-ND	1.05	90	.68	300-2090-2-ND	525.00	CMR309T40.000MABJTR
48.0000000	300-2091-1-ND	1.05	90	.68	300-2091-2-ND	525.00	CMR309T48.000MABJTR
49.1520000	300-2092-1-ND	1.05	90	.68	300-2092-2-ND	525.00	CMR309T49.152MABJTR
50.0000000	300-2093-1-ND	1.05	90	.68	300-2093-2-ND	525.00	CMR309T50.000MABJTR
60.0000000	300-2094-1-ND	1.05	90	.68	300-2094-2-ND	525.00	CMR309T60.000MABJTR
66.6660000	300-2095-1-ND	1.05	90	.68	300-2095-2-ND	525.00	CMR309T66.666MABJTR

**CM100S, CM200S, and CM202 Series Crystals 32.768KHz**

**SPECIFICATIONS:**

- Frequency Tolerance: ±20ppm
- Operating Temperature Range: -40°C to +85°C
- Storage Temperature Range: -55°C to +125°C
- Equivalent Series Resistance: 50KΩ Max.
- Drive Level: 1µW Max.
- Insulation Resistance: 500MΩ Min.
- Aging (First Year) ±3ppm Max.

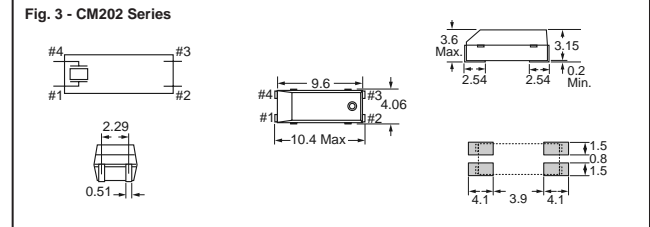
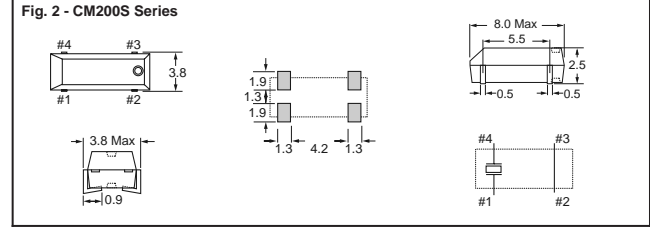
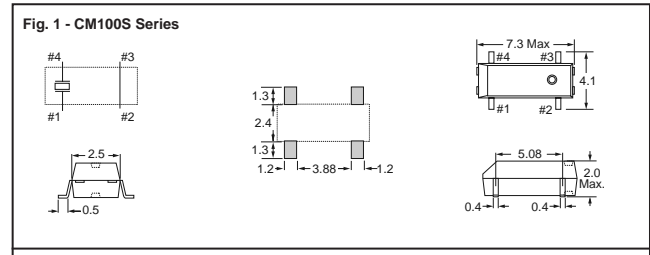
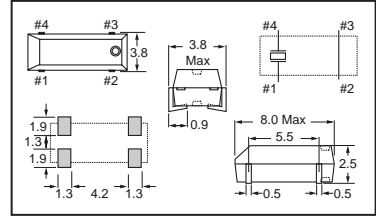


Fig.	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
			1	10	50			
1	12.5	300-1007-1-ND	1.70	1.46	1.10	300-1007-2-ND	885.00/M	CM100S32.768KDZFT
2	12.5	300-1004-1-ND	1.19	1.02	.77	300-1004-2-ND	618.98/M	CM200S32.768KDZFT
		6	300-2034-1-ND	1.05	.90	.68	300-2034-2-ND	492.00/M
3	12.5	300-1006-1-ND	1.29	1.11	.83	—	—	CM202-32.768KDZFT

**CM250S Series Quartz Crystals**

**SPECIFICATIONS:**

- Frequency Tolerance: ±50ppm
- Operating Temperature Range: -40°C to +85°C
- Storage Temperature Range: -55°C to +125°C
- Load Capacitance: 12.5pF
- Shunt Capacitance: 0.8 to 1.7pF
- Drive Level: 1µW Max.
- Insulation Resistance: ±500MΩ Min.
- Aging (First Year): ±5ppm Max.



Frequency (KHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Citizen Part No.
		1	10	50			
32.000	300-2007-1-ND	1.65	1.35	1.20	300-2007-2-ND	864.00/M	CM250S32.000KAZFT
40.000	300-2015-1-ND	1.65	1.35	1.20	300-2015-2-ND	864.00/M	CM250S40.000KAZFT
60.000	300-2018-1-ND	1.65	1.35	1.20	300-2018-2-ND	864.00/M	CM250S60.000KAZFT
60.005	300-2019-1-ND	1.65	1.35	1.20	300-2019-2-ND	864.00/M	CM250S60.005KAZFT
65.536	300-2020-1-ND	1.65	1.35	1.20	300-2020-2-ND	864.00/M	CM250S65.536KAZFT
75.000	300-2021-1-ND	1.65	1.35	1.20	300-2021-2-ND	864.00/M	CM250S75.000KAZFT
76.790	300-2022-1-ND	1.65	1.35	1.20	300-2022-2-ND	864.00/M	CM250S76.790KAZFT
76.800	300-2023-1-ND	1.65	1.35	1.20	300-2023-2-ND	864.00/M	CM250S76.800KAZFT
76.810	300-2024-1-ND	1.65	1.35	1.20	300-2024-2-ND	864.00/M	CM250S76.810KAZFT
77.500	300-2025-1-ND	1.65	1.35	1.20	300-2025-2-ND	864.00/M	CM250S77.500KAZFT
77.503	300-2026-1-ND	1.65	1.35	1.20	300-2026-2-ND	864.00/M	CM250S77.503KAZFT
96.000	300-2029-1-ND	1.65	1.35	1.20	300-2029-2-ND	864.00/M	CM250S96.000KAZFT
100.000	300-2030-1-ND	1.65	1.35	1.20	300-2030-2-ND	864.00/M	CM250S100.000KAZFT