



SMD Oscillators



Series	Dimensions		
	L	W	H
CWX813	7.0	5.0	1.3
CWX823	7.0	5.0	1.3
HSM92	7.5	5.0	1.4
HSM93	7.5	5.0	1.4
LM113	7.0	5.0	1.75
P122	7.0	5.0	1.5
P142	7.0	5.0	1.5
P212	7.0	5.0	1.5

Series	Dimensions		
	L	W	H
P222	7.0	5.0	1.5
P123	7.0	5.0	1.5
P143	7.0	5.0	1.5
P213	7.0	5.0	1.5
P223	7.0	5.0	1.5
PM113	7.0	5.0	1.75
X502	7.62	5.13	2.54

For electrical specifications and additional info, please see datasheet on Digi-Key website.

Fig. 1 — LVCMOS and HCMOS

Pin	Function
1	Tri-State E/D
2	Ground
3	Output
4	Vcc

Fig. 2 — LVPECL

Pin	Function
1	Enable/Disable
2	N/C
3	Ground
4	Q Output
5	Q Output
6	Vcc

Fig. 3 — LVDS

Pin	Function
1	Enable/Disable
2	N/C
3	Ground
4	Q Output
5	Q Output
6	Vcc

Fig. 4 — LVDS

Pin	Function
1	N/C
2	Enable/Disable
3	Ground (Case)
4	Output Q
5	Comp Output Q
6	Vcc

Frequency (MHz)	Output Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Connor-Winfield Part No.
			1	10	100			
Fig. 1 — CWX813 Series — 3.3V ±25ppm, -20°C - 70°C								
1.5440	LVC MOS	CW510CT-ND	3.12	2.71	1.88	CW510TR-ND	1165.96	CWX813-001.544M
1.8432	LVC MOS	CW511CT-ND	3.12	2.71	1.88	CW511TR-ND	1165.96	CWX813-001.8432M
3.6864	LVC MOS	CW512CT-ND	3.12	2.71	1.88	CW512TR-ND	1165.96	CWX813-003.6864M
4.0000	LVC MOS	CW513CT-ND	3.12	2.71	1.88	CW513TR-ND	1165.96	CWX813-004.00M
7.3728	LVC MOS	CW514CT-ND	3.12	2.71	1.88	CW514TR-ND	1165.96	CWX813-007.3728M
8.0000	LVC MOS	CW515CT-ND	3.12	2.71	1.88	CW515TR-ND	1165.96	CWX813-008.00M
10.0000	LVC MOS	CW516CT-ND	3.12	2.71	1.88	CW516TR-ND	1165.96	CWX813-010.00M
12.0000	LVC MOS	CW517CT-ND	3.12	2.71	1.88	CW517TR-ND	1165.96	CWX813-012.00M
12.2880	LVC MOS	CW518CT-ND	3.12	2.71	1.88	CW518TR-ND	1165.96	CWX813-012.288M
14.1812	LVC MOS	CW519CT-ND	3.12	2.71	1.88	CW519TR-ND	1165.96	CWX813-014.31818M
15.3600	LVC MOS	CW520CT-ND	3.12	2.71	1.88	CW520TR-ND	1165.96	CWX813-015.36M
16.0000	LVC MOS	CW521CT-ND	3.12	2.71	1.88	CW521TR-ND	1165.96	CWX813-016.00M
16.3840	LVC MOS	CW522CT-ND	3.12	2.71	1.88	CW522TR-ND	1165.96	CWX813-016.384M
18.4320	LVC MOS	CW523CT-ND	3.12	2.71	1.88	CW523TR-ND	1165.96	CWX813-018.432M
19.4400	LVC MOS	CW524CT-ND	3.12	2.71	1.88	CW524TR-ND	1165.96	CWX813-019.44M
20.0000	LVC MOS	CW525CT-ND	3.12	2.71	1.88	CW525TR-ND	1165.96	CWX813-020.00M
20.4800	LVC MOS	CW526CT-ND	3.12	2.71	1.88	CW526TR-ND	1165.96	CWX813-020.48M
24.0000	LVC MOS	CW527CT-ND	3.12	2.71	1.88	CW527TR-ND	1165.96	CWX813-024.00M
24.5760	LVC MOS	CW528CT-ND	3.12	2.71	1.88	CW528TR-ND	1165.96	CWX813-024.576M
25.0000	LVC MOS	CW529CT-ND	3.12	2.71	1.88	CW529TR-ND	1165.96	CWX813-025.00M
27.0000	LVC MOS	CW530CT-ND	3.12	2.71	1.88	CW530TR-ND	1165.96	CWX813-027.00M
29.4912	LVC MOS	CW531CT-ND	3.12	2.71	1.88	CW531TR-ND	1165.96	CWX813-029.4912M
30.0000	LVC MOS	CW532CT-ND	3.12	2.71	1.88	CW532TR-ND	1165.96	CWX813-030.00M
32.0000	LVC MOS	CW533CT-ND	3.12	2.71	1.88	CW533TR-ND	1165.96	CWX813-032.00M
32.7680	LVC MOS	CW534CT-ND	3.12	2.71	1.88	CW534TR-ND	1165.96	CWX813-032.768M
33.0000	LVC MOS	CW535CT-ND	3.12	2.71	1.88	CW535TR-ND	1165.96	CWX813-033.00M
33.3330	LVC MOS	CW536CT-ND	3.12	2.71	1.88	CW536TR-ND	1165.96	CWX813-033.333M
40.0000	LVC MOS	CW537CT-ND	3.12	2.71	1.88	CW537TR-ND	1165.96	CWX813-040.00M
44.7360	LVC MOS	CW538CT-ND	3.12	2.71	1.88	CW538TR-ND	1165.96	CWX813-044.736M
45.0000	LVC MOS	CW539CT-ND	3.12	2.71	1.88	CW539TR-ND	1165.96	CWX813-045.00M
49.1520	LVC MOS	CW540CT-ND	3.12	2.71	1.88	CW540TR-ND	1165.96	CWX813-049.152M
50.0000	LVC MOS	CW541CT-ND	3.12	2.71	1.88	CW541TR-ND	1165.96	CWX813-050.00M
60.0000	LVC MOS	CW542CT-ND	3.12	2.71	1.88	CW542TR-ND	1165.96	CWX813-060.00M
64.0000	LVC MOS	CW543CT-ND	3.57	3.10	2.15	CW543TR-ND	1334.13	CWX813-064.00M
66.6666	LVC MOS	CW544CT-ND	3.57	3.10	2.15	CW544TR-ND	1334.13	CWX813-066.6666M
72.0000	LVC MOS	CW545CT-ND	3.57	3.10	2.15	CW545TR-ND	1334.13	CWX813-072.00M
80.0000	LVC MOS	CW546CT-ND	3.57	3.10	2.15	CW546TR-ND	1334.13	CWX813-080.00M
100.0000	LVC MOS	CW547CT-ND	4.36	3.78	2.62	CW547TR-ND	1625.62	CWX813-100.00M
Fig. 1 — CWX823 Series — 3.3V ±50ppm, -20°C - 70°C								
1.5440	LVC MOS	CW431CT-ND	2.37	2.06	1.43	CW431TR-ND	885.68	CWX823-001.544M
1.8432	LVC MOS	CW432CT-ND	2.37	2.06	1.43	CW432TR-ND	885.68	CWX823-001.8432M
3.6864	LVC MOS	CW433CT-ND	2.37	2.06	1.43	CW433TR-ND	885.68	CWX823-003.6864M
4.0000	LVC MOS	CW434CT-ND	2.37	2.06	1.43	CW434TR-ND	885.68	CWX823-004.00M
7.3728	LVC MOS	CW435CT-ND	2.37	2.06	1.43	CW435TR-ND	885.68	CWX823-007.3728M
8.0000	LVC MOS	CW436CT-ND	2.37	2.06	1.43	CW436TR-ND	885.68	CWX823-008.00M
10.0000	LVC MOS	CW437CT-ND	2.37	2.06	1.43	CW437TR-ND	885.68	CWX823-010.00M
12.0000	LVC MOS	CW438CT-ND	2.37	2.06	1.43	CW438TR-ND	885.68	CWX823-012.00M
12.2880	LVC MOS	CW439CT-ND	2.37	2.06	1.43	CW439TR-ND	885.68	CWX823-012.288M
14.1812	LVC MOS	CW440CT-ND	2.37	2.06	1.43	CW440TR-ND	885.68	CWX823-014.31818M
15.3600	LVC MOS	CW441CT-ND	2.37	2.06	1.43	CW441TR-ND	885.68	CWX823-015.36M
16.0000	LVC MOS	CW442CT-ND	2.37	2.06	1.43	CW442TR-ND	885.68	CWX823-016.00M
16.3840	LVC MOS	CW443CT-ND	2.37	2.06	1.43	CW443TR-ND	885.68	CWX823-016.384M
18.4320	LVC MOS	CW444CT-ND	2.37	2.06	1.43	CW444TR-ND	885.68	CWX823-018.432M
19.4400	LVC MOS	CW445CT-ND	2.37	2.06	1.43	CW445TR-ND	885.68	CWX823-019.44M
20.0000	LVC MOS	CW446CT-ND	2.37	2.06	1.43	CW446TR-ND	885.68	CWX823-020.00M
20.4800	LVC MOS	CW447CT-ND	2.37	2.06	1.43	CW447TR-ND	885.68	CWX823-020.48M
24.0000	LVC MOS	CW448CT-ND	2.37	2.06	1.43	CW448TR-ND	885.68	CWX823-024.00M
24.5760	LVC MOS	CW449CT-ND	2.37	2.06	1.43	CW449TR-ND	885.68	CWX823-024.576M
25.0000	LVC MOS	CW450CT-ND	2.37	2.06	1.43	CW450TR-ND	885.68	CWX823-025.00M
27.0000	LVC MOS	CW451CT-ND	2.37	2.06	1.43	CW451TR-ND	885.68	CWX823-027.00M
29.4912	LVC MOS	CW452CT-ND	2.37	2.06	1.43	CW452TR-ND	885.68	CWX823-029.4912M
30.0000	LVC MOS	CW453CT-ND	2.37	2.06	1.43	CW453TR-ND	885.68	CWX823-030.00M
32.0000	LVC MOS	CW454CT-ND	2.37	2.06	1.43	CW454TR-ND	885.68	CWX823-032.00M
32.7680	LVC MOS	CW455CT-ND	2.37	2.06	1.43	CW455TR-ND	885.68	CWX823-032.768M
33.0000	LVC MOS	CW456CT-ND	2.37	2.06	1.43	CW456TR-ND	885.68	CWX823-033.00M
33.3330	LVC MOS	CW457CT-ND	2.37	2.06	1.43	CW457TR-ND	885.68	CWX823-033.333M
40.0000	LVC MOS	CW458CT-ND	2.37	2.06	1.43	CW458TR-ND	885.68	CWX823-040.00M
44.7360	LVC MOS	CW459CT-ND	2.37	2.06	1.43	CW459TR-ND	885.68	CWX823-044.736M
45.0000	LVC MOS	CW460CT-ND	2.37	2.06	1.43	CW460TR-ND	885.68	CWX823-045.00M
49.1520	LVC MOS	CW461CT-ND	2.37	2.06	1.43	CW461TR-ND	885.68	CWX823-049.152M
50.0000	LVC MOS	CW462CT-ND	2.37	2.06	1.43	CW462TR-ND	885.68	CWX823-050.00M
60.0000	LVC MOS	CW463CT-ND	2.37	2.06	1.43	CW463TR-ND	885.68	CWX823-060.00M
64.0000	LVC MOS	CW464CT-ND	2.67	2.32	1.61	CW464TR-ND	997.80	CWX823-064.00M
66.6666	LVC MOS	CW465CT-ND	2.67	2.32	1.61	CW465TR-ND	997.80	CWX823-066.6666M
72.0000	LVC MOS	CW466CT-ND	2.67	2.32	1.61	CW466TR-ND	997.80	CWX823-072.00M
80.0000	LVC MOS	CW467CT-ND	2.67	2.32	1.61	CW467TR-ND	997.80	CWX823-080.00M

Frequency (MHz)	Output Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Connor-Winfield Part No.
			1	10	100			
100.0000	LVC MOS	CW468CT-ND	3.45	3.00	2.08	CW468TR-ND	1289.29	CWX823-100.00M
125.0000	LVC MOS	CW469CT-ND	6.61	5.73	3.97	CW469TR-ND	2466.46	CWX823-125.00M
156.2500	LVC MOS	CW470CT-ND	12.76	11.07	7.66	CW470TR-ND	4764.76	CWX823-156.25M
Fig. 1 — HSM92 Series — 5.0V ±50ppm, 0°C - 70°C								
29.4912	HCMOS	CW341-ND	12.61	10.82	7.21	—	—	HSM92-029.4912M
44.2368	HCMOS	CW342-ND	12.61	10.82	7.21	—	—	HSM92-044.2368M
Fig. 1 — HSM93 Series — 5.0V ±100ppm, 0°C - 70°C								
4.9152	HCMOS	CW301-ND	12.05	10.33	6.89	—	—	HSM93-004.9152M
8.0000	HCMOS	CW302-ND	12.05	10.33	6.89	—	—	HSM93-008.00M
10.0000	HCMOS	CW303-ND	12.05	10.33	6.89	—	—	HSM93-010.00M
16.0000	HCMOS	CW304-ND	12.05	10.33	6.89	—	—	HSM93-016.00M
20.0000	HCMOS	CW305-ND	12.05	10.33	6.89	—	—	HSM93-020.00M