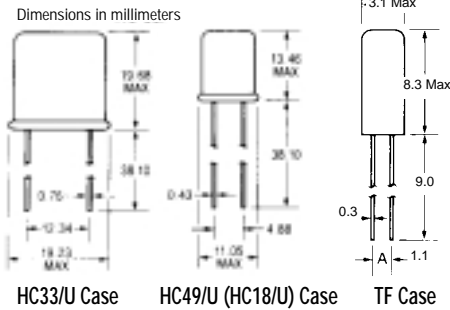
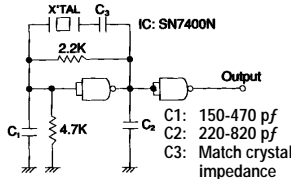


## Microprocessor Crystals



- Frequency calibration tolerance:  $\pm 50$ ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Frequency stability tolerance:  $\pm 50$  ppm from -10°C to +60°C
- Shunt capacitance: 7pf maximum

### Application Reference (4-14MHz) (Parallel Resonance)



### HC33/U CASE

Part Number	Product Number	Frequency (MHz)	Impedance	Microprocessor	Pricing			
					1	10	100	1000
14349	CY1★	1.0	13pf	MC6800/6808/6809E/6500 series	\$4.95	\$4.49	\$3.95	\$3.49
14357	CY1.84	1.8432	Series	MC14411/CDP1802/CDP1804	1.09	.99	.89	.69

### HC49/U (HC18/U) CASE

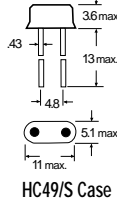
102613	CY1.843	1.8432	18pf	MC14411/MC6802	\$ .99	\$ .79	\$ .59	\$ .49
102621	CY2.0	2.0	Series	2650/F-8	1.49	1.25	.99	.75
101274	CY2.457	2.4576	32pf	CDP1702/1802C/1804/1804C	.79	.69	.59	.49
14525	CY3.27	3.2768	18pf	IM6100C/CDP1802/CDP1804	.79	.69	.59	.49
14533	CY3.57★	3.579545	18pf	MC6801, 2, 3/MM5369	.79	.69	.59	.49
14568	CY3.68	3.6864	18pf	8748/8035-8	.79	.69	.59	.49
14592	CY4★	4.0	20pf	MCS-40/MC6802, 8, 9/CDP1802	.79	.69	.59	.49
14621	CY4.91	4.9152	Series	CDP1802C/1804/1804C	.79	.69	.59	.49
14664	CY5.06	5.0688	Series	COM5016/5016T/5031	.45	.35	.25	.19
14681	CY6	6.0	18pf	MCS-48/IM8048	.79	.69	.59	.49
14699	CY6.14	6.144	30pf	MCS-85/8085	.79	.69	.59	.49
14710	CY7.37	7.3728	30pf	8051/8031	.79	.69	.59	.49
14728	CY8★	8.0	Series	IM6100A/MC68B09	.79	.69	.59	.49
14381	CY10★	10.0	Series	MCS-85/8085A-2	.79	.69	.59	.49
120061	CY11.05	11.0592	Series	General purpose	.79	.69	.59	.49
14402	CY12	12.0	Series	MCS-86/8086/8284/8202	.79	.69	.59	.49
14437	CY14.31	14.31818	Series	8080/8224/general purpose	.59	.49	.39	.29
14453	CY16	16.0	Series	8080/8224/general purpose	.79	.69	.59	.39
14517	CY20	20.0	Series	MCS-80/8080A/8224	.79	.69	.59	.39

### TF CASE

14584	CY32.76	32.768kHz	10.5pf	Tuning fork	\$ .79	\$ .69	\$ .59	\$ .49
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## Low Profile Microprocessor Crystals

- Frequency range: 3.5 to 70.0MHz
- Operating temp.: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging:  $\pm 5$ ppm/year maximum
- Frequency stability tolerance:  $\pm 50$ ppm

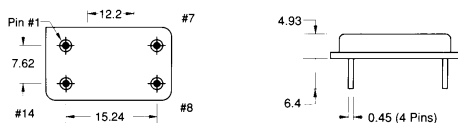


### HC49/S CASE (Low Profile)

Part Number	Product Number	Frequency (MHz)	Impedance	Max. Resist.	Microprocessor	Pricing			
						1	10	100	1000
137816	CY3.57LP	3.579545	17pf	150Ω	MC6801, 2, 3 / MM5369	\$1.05	\$.85	\$.75	\$.65
137832	CY4LP	4.000	17pf	120Ω	MCS-40 / MC6802, 8, 9 / CDP1802	1.05	.85	.75	.65
137859	CY8LP	8.000	Series	60Ω	IM6100A / MC68B09	1.05	.85	.75	.65
137875	CY11.05LP	11.0592	Series	50Ω	General purpose	1.05	.85	.75	.65
137891	CY16LP	16.000	Series	40Ω	8080 / 8224 / general purpose	1.05	.85	.75	.65

## TTL Crystal Clock Oscillators (full can)

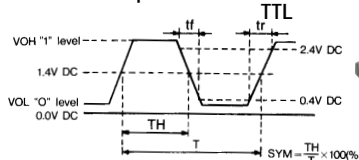
Dimensions in millimeters



### Specifications

- Input voltage: +5VDC,  $\pm 0.5$ VDC
- OSC series oscillators fit into a standard 14-pin DIP socket P/N 37209 (pg 54)
- Frequency stability  $\pm 100$ ppm
- Operating temperature: 0°C to 70°C

### Output Waveforms



Pin #	Function
1*	N/C
7	GND
8	Output
14	+5VDC

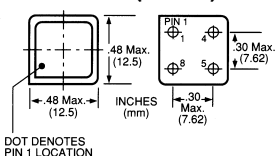
### Socket



Part No.	Product No.	Frequency (MHz)	Input Current	Rise Fall time	Max Input Curr.	Output Curr.	1	10	100	1000
27861	OSC1	1.0	45mA	15ns	7mA	-1mA	\$2.95	\$2.75	\$2.49	\$2.25
27879	OSC184	1.8432	45mA	15ns	7mA	-1mA	1.89	1.69	1.39	1.19
27924	OSC2	2.0	30mA	15ns	7mA	-1mA	2.29	2.09	1.95	1.75
27967	OSC4	4.0	50mA	10ns	7mA	-1mA	1.89	1.69	1.39	1.19
27991	OSC8	8.0	30mA	15ns	15mA	-3mA	1.29	1.09	.89	.69
27887	OSC10	10.0	20mA	10ns	15mA	-3mA	1.29	1.09	.89	.69
144207	OSC11.05	11.059	30mA	10ns	50mA	-3mA	1.29	1.09	.89	.69
27895	OSC12	12.0	50mA	10ns	15mA	-3mA	1.29	1.09	.89	.69
108652	OSC14.31	14.31818	50mA	10ns	15mA	-3mA	1.29	1.09	.79	.59
27908	OSC16	16.0	50mA	10ns	15mA	-3mA	1.29	1.09	.89	.69
27932	OSC20	20.0	20mA	10ns	17mA	-3mA	1.29	1.09	.89	.69
76814	OSC25	25.0	15mA	7ns	18mA	-3mA	1.29	1.09	.89	.69
27941	OSC32	32.0	15mA	7ns	18mA	-4mA	1.29	1.09	.89	.69
76822	OSC33	33.0	15mA	6ns	18mA	-4mA	1.89	1.69	1.39	1.19
153226	OSC40	40.0	15mA	6ns	18mA	-4mA	1.29	1.19	.99	.79
76831	OSC50	50.0	25mA	6ns	25mA	-4mA	1.29	1.19	.99	.79
77489	OSC80	80.0	80mA	3ns	25mA	-4mA	1.89	1.69	1.39	1.19
76857	OSC100	100.0	90mA	3ns	25mA	-4mA	2.49	2.25	1.95	1.75

Part No.	Description	1	10	100	1000
133006	14-pin full can oscillator socket, low profile soldertail	\$ .59	\$ .45	\$ .39	\$ .35

## TTL Crystal Clock Oscillators (half can)



Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

- OSCH series oscillators fit into a standard 8-pin DIP socket P/N 51625 (pg 54)
- Input voltage: +5VDC,  $\pm 0.5$ VDC • Frequency stability:  $\pm 100$ ppm • Operating temperature: 0°C to 70°C

Part Number	Product Number	Frequency (MHz)	Input Current	Rise Fall time	Max Input Current	Output Current	Pricing			
							1	10	100	1000
95249	OSC1H	1.0	20mA	6ns	30mA	-0.4mA	\$2.75	\$2.49	\$2.25	\$1.95
102779	OSC10H	10.0	30mA	6ns	45mA	-0.4mA	1.95	1.75	1.49	1.25
172161	OSC50H	50.0	20mA	6ns	30mA	-0.4mA	1.75	1.49	1.25	1.15