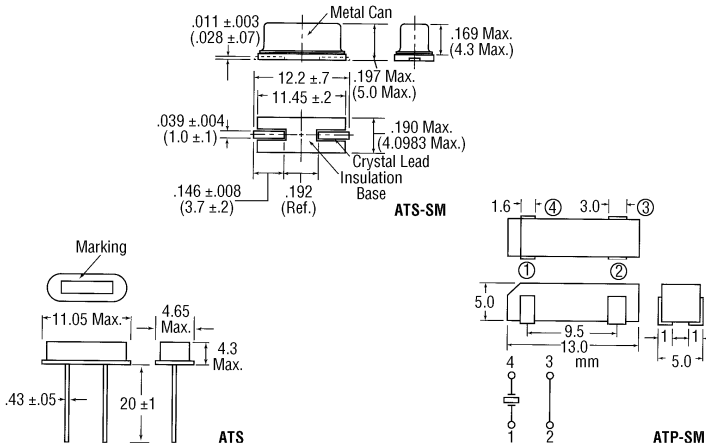


Visit CTS's at www.ctscorp.com

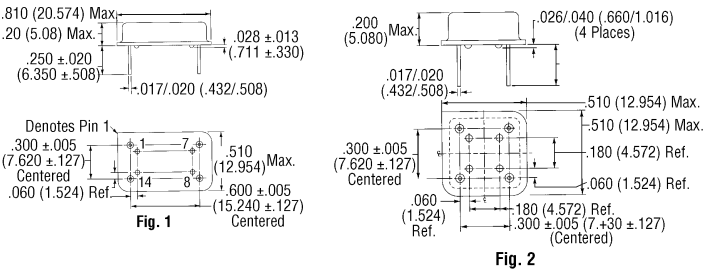
AT Strip Crystals



Package: HC/49U and SM metal or plastic. Frequency Range: 3.5 to 24.5 MHz available. Frequency Tolerance @ 25°C: ±0.005% (50 PPM). 0°-70°C Tolerance: ±0.005%. Operating Temperature: 0°C to +70°C.

Stock No.	Mfr.'s Type	Frequency (MHz)	Load/ Series	EACH		
				1-24	25-49	50-99
745-0016	ATSO40SM	4.000000	20 pF	.91	.82	.74
745-0044	ATSO98	9.830400	20 pF	1.02	.92	.83
745-0062	ATS120	12.000000	Series	1.02	.92	.83
745-0064	ATS120SM	12.000000	Series	.90	.82	.74
745-0090	ATP160SM	16.000000	Series	1.75	1.57	1.43
745-0092	ATS200	20.000000	Series	1.20	1.08	.98
745-0104	ATS245	24.576000	Series	1.13	1.02	.93

MXO-45/45 HS Series Clock Oscillators



- Features**
- ▶ CMOS/TTL Compatible
 - ▶ Available in High Frequencies
 - ▶ Tristate Option Available
 - ▶ Available in Tight Frequency Stability
 - ▶ Optimal Jitter Performance

Applications
Laptop computers, "green PCs", medical diagnostics equipment and other systems requiring low power led to the development of the series MXO45LV, a 3.3 V XO.

Package: 45-14 pin DIP. 45 HS 8 pin DIP. Frequency Range: 1.0 to 80 MHz. 0°-70°C Tolerance @ 25°C: ±0.01% (100 PPM). Operating Temperature: 0°C to 70°C. Duty Cycle: 45/55% ≤ 50 MHz. Rise and Fall Time: TTL 5 nS max. CMOS 8 nS max. Supply Voltage (DC): 5.0 volts ±10%. Output Load: 10 TTL/50 pF ≤ 50 MHz.

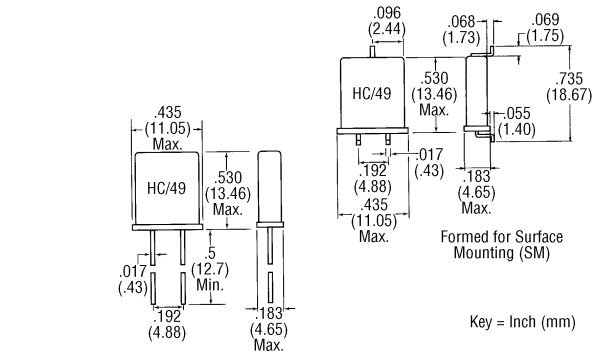
MXO-45 Series Clock Oscillators

Stock No.	Mfr.'s Type	Frequency (MHz)	Fig.	EACH		
				1-24	25-49	50-99
745-0228	MXO45-1.0000	1.00000	1	3.56	3.20	2.91
745-0232	MXO45-2.0000	2.00000	1	3.56	3.20	2.91
745-0238	MXO45-4.0000	4.00000	1	4.88	3.19	2.19
745-0240	MXO45-4.9152	4.91520	1	2.83	2.55	2.32
745-0242	MXO45-5.0000	5.00000	1	2.43	2.18	1.98
745-0254	MXO45-10.0000	10.00000	1	2.43	2.18	1.98
745-0256	MXO45-12.0000	12.00000	1	2.42	2.18	1.99
745-0260	MXO45-16.0000	16.00000	1	2.43	2.18	1.98
745-0266	MXO45-20.0000	20.00000	1	2.43	2.18	1.98
745-0278	MXO45-40.0000	40.00000	1	2.83	2.55	2.32
745-0280	MXO45-50.0000	50.00000	1	2.83	2.55	2.32

MXO-45 HS Series Clock Oscillator

Stock No.	Mfr.'s Type	Frequency (MHz)	Fig.	1-24	25-49	50-99
745-0286	MXO45HS-1.0000	1.00000	2	3.56	3.20	2.91
745-0288	MXO45HS-1.8432	1.84320	2	3.56	3.20	2.91
745-0296	MXO45HS-4.0000	4.00000	2	2.43	2.18	1.98
745-0310	MXO45HS-8.0000	8.00000	2	2.43	2.18	1.98
745-0312	MXO45HS-10.0000	10.00000	2	2.83	2.55	2.32
745-0314	MXO45HS-12.0000	12.00000	2	2.43	2.18	1.98
745-0324	MXO45HS-20.0000	20.00000	2	2.83	2.55	2.32
745-0326	MXO45HS-24.0000	24.00000	2	2.43	2.18	1.98
745-0340	MXO45HS-64.0000	64.00000	2	3.17	2.86	2.60

Microprocessor Crystals

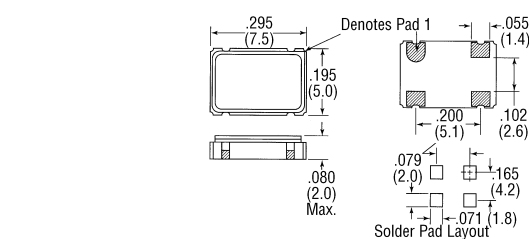


- Features**
- ▶ Broad Range of Standard Frequencies
 - ▶ Rugged Hermetically Resistance Welded Package

Package: HC/49. Frequency Range: 1.00 to 25.00 MHz available. Frequency Tolerance @ 25°C: ±0.005% (50 PPM). 0°-70°C Tolerance: ±0.005%. Operating Temperature: 0°C to +70°C. Calibration: ±0.005% (50 PPM) @ 25°C. Stability: ±0.05% (50 PPM) of 25°C, 0°C to +70°.

Stock No.	Mfr.'s Type	Frequency (MHz)	Holder	Corr.	EACH		
					1-24	25-49	50-99
745-0120	MP024S	2.457600	HC/49	32 pF	1.41	1.26	1.15
745-0124	MP036S	3.579545	HC/49	18 pF	.69	.62	.56
745-0126	MP037	3.686400	HC/49	20 pF	.65	.58	.53
745-0128	MP040	4.000000	HC/49	20 pF	.65	.58	.53
745-0130	MP04A	4.000000	HC/49	Series	.69	.62	.56
745-0134	MP042	4.915200	HC/49	20 pF	.86	.78	.70
745-0142	MP060	6.000000	HC/49	20 pF	.63	.57	.52
745-0144	MP061	6.144000	HC/49	20 pF	.86	.78	.70
745-0146	MP073	7.372800	HC/49	Series	.63	.57	.52
745-0148	MP080	8.000000	HC/49	Series	.63	.57	.52
745-0150	MP080A	8.000000	HC/49	20 pF	.63	.57	.52
745-0154	MP100	10.000000	HC/49	Series	.63	.57	.52
745-0162	MP111	11.059200	HC/49	Series	.63	.57	.52
745-0164	MP120	12.000000	HC/49	Series	.63	.57	.52
745-0166	MP122	12.288000	HC/49	32 pF	.63	.57	.52
745-0168	MP143	14.318180	HC/49	Series	.63	.57	.52
745-0170	MP147	14.745600	HC/49	Series	.63	.57	.52
745-0174	MP160	16.000000	HC/49	Series	.86	.78	.70
745-0176	MP184	18.432000	HC/49	Series	.63	.57	.52
745-0180	MP200	20.000000	HC/49	Series	.69	.62	.56

CB3 Series Clock Oscillators



- Features**
- ▶ Standard Miniature Surface Mount Footprint
 - ▶ Frequency Range 1.5-125 MHz Available
 - ▶ Frequency Stability: 100 ppm Standard; 50 ppm and 25 ppm Available
 - ▶ CMOS/TTL Compatible
 - ▶ Tri-State Output Standard
 - ▶ Tape and Reel Packaging (16 mm)
 - ▶ PCMCIA Type II and III Compatible

Package: 5 × 7 mm SMT. Frequency Range: 1.5 to 125 MHz. 0°-70°C Tolerance @ 25°C: ±0.01% (100 PPM). Operating Temperature: 0°C to 70°C. Duty Cycle: 45/55%. Rise and Fall Time: 8nS max. Supply Voltage (DC): 5.0 volts ±10%. Output Load: 50 pF.

Stock No.	Mfr.'s Type	Frequency (MHz)	EACH		
			1-24	25-49	50-99
745-0196	CB3-10.0000	10.00000	3.85	3.47	3.15
745-0222	CB3-40.0000	40.00000	3.85	3.47	3.15
745-0224	CB3-3C-1.5440	1.54400	5.10	4.54	4.08
745-0226	CB3-3C-3.6864	3.68640	2.42	2.18	1.98
745-0350	CB3-3C-10.0000	10.00000	2.42	2.18	1.98
745-0351	CB3-3C-12.0000	12.00000	2.42	2.18	1.98
745-0352	CB3-3C-20.0000	20.00000	2.42	2.18	1.98
745-0354	CB3-3C-25.0000	25.00000	2.42	2.18	1.98
745-0356	CB3-3C-44.7360	44.73600	2.56	2.31	2.10
745-0358	CB3-3C-50.0000	50.00000	4.53	4.08	3.71
745-0360	CB3-3C-64.0000	64.00000	2.72	2.42	2.10
745-0362	CB3-3C-66.6666	66.66660	4.53	4.08	3.71