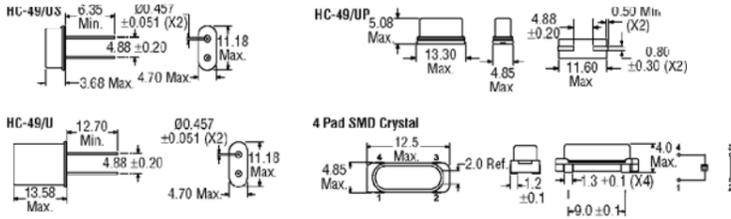


Microprocessor Crystals



Packages: HC-49/U, HC-49/US, HC-49/UP, 4 Pad SMD Crystal. Frequency Range: 1.8432 to 65 MHz (HC-49/U); 3.579545 to 60.000 MHz. Frequency Tolerance/Stability: ±50 ppm/±100 ppm. Operating Temperature Range: 0°C to -70°C. Load Capacitance: 18 pF (standard).

HC-49/US

Stock No.	Mfr.'s Type	Frequency Range	Load	ESR	EACH 1-24
614-0062	EC2-3.579545M	3.579545	18 pF	200	.82
614-0064	EC2-3.6864M	3.686400	18 pF	200	.82
614-0066	EC2-4.0000M	4.000000	18 pF	200	.82
614-0068	EC2-4.0960M	4.096000	18 pF	200	.75
614-0070	EC2-4.194304M	4.194304	18 pF	200	.75
614-0072	EC2-4.9152M	4.915200	18 pF	200	.75
614-0074	EC2-7.3728M	7.372800	18 pF	120	.82
614-0076	EC2-8.1920M	8.192000	18 pF	90	.75
614-0078	EC2-10.0000M	10.000000	18 pF	70	.75
614-0080	EC2-11.0592M	11.059200	18 pF	70	.74
614-0082	EC2-12.0000M	12.000000	18 pF	70	.68
614-0084	EC2-12.2880M	12.288000	18 pF	70	.68
614-0086	EC2-14.31818M	14.318180	18 pF	70	.74
614-0088	EC2-14.7456M	14.745600	18 pF	70	.74
614-0090	EC2-16.0000M	16.000000	18 pF	50	.74
614-0092	EC2-18.4320M	18.432000	18 pF	50	.68
614-0094	EC2-19.6608M	19.660800	18 pF	50	.68
614-0096	EC2-20.0000M	20.000000	18 pF	50	.76
614-0098	EC2-24.0000M	24.000000	18 pF	40	.70
614-0100	EC2-24.576M	24.576000	18 pF	40	.90
614-0102	EC2-25.0000M	25.000000	18 pF	40	.79

HC-49/UP

Stock No.	Mfr.'s Type	Frequency Range	Load	ESR	EACH 1-24
614-0198	EC2SM-3.579545M	3.579545	18 pF	200	.83
614-0104	EC2SM-3.6864M	3.686400	18 pF	200	.83
614-0106	EC2SM-4.0000M	4.000000	18 pF	200	.83
614-0108	EC2SM-4.0960M	4.096000	18 pF	200	.77
614-0110	EC2SM-4.194304M	4.194304	18 pF	200	.77
614-0112	EC2SM-4.9152M	4.915200	18 pF	200	.77
614-0114	EC2SM-7.3728M	7.372800	18 pF	120	.77
614-0116	EC2SM-8.1920M	8.192000	18 pF	90	.77
614-0118	EC2SM-10.0000M	10.000000	18 pF	70	.77
614-0120	EC2SM-11.0592M	11.059200	18 pF	70	.83
614-0122	EC2SM-12.0000M	12.000000	18 pF	70	.77
614-0124	EC2SM-12.2880M	12.288000	18 pF	70	.77
614-0126	EC2SM-14.31818M	14.318180	18 pF	70	.83
614-0128	EC2SM-14.7456M	14.745600	18 pF	70	.77
614-0130	EC2SM-16.0000M	16.000000	18 pF	50	.83
614-0132	EC2SM-18.4320M	18.432000	18 pF	50	.77
614-0134	EC2SM-19.6608M	19.660800	18 pF	50	.77
614-0136	EC2SM-20.0000M	20.000000	18 pF	50	.91
614-0138	EC2SM-24.0000M	24.000000	18 pF	40	.91
614-0140	EC2SM-24.576M	24.576000	18 pF	40	.91
614-0142	EC2SM-25.0000M	25.000000	18 pF	40	.83

HC-49/U

Stock No.	Mfr.'s Type	Frequency Range	Load	ESR	EACH 1-24
614-0002	EC-1.8432M	1.843200	18 pF	650	1.76
614-0004	EC-2.0000M	2.000000	18 pF	550	1.61
614-0006	EC-2.4576M	2.457600	18 pF	350	1.61

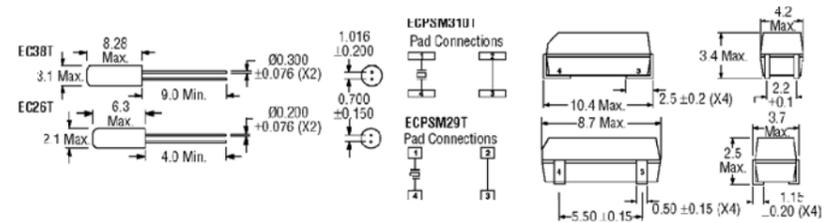
HC-49/U (continued)

Stock No.	Mfr.'s Type	Frequency Range	Load	ESR	EACH 1-24
614-0008	EC-3.1872M	3.187200	18 pF	250	1.61
614-0010	EC-3.579545M	3.579545	18 pF	180	.76
614-0012	EC-3.6864M	3.686400	18 pF	150	.76
614-0014	EC-4.0000M	4.000000	18 pF	100	.76
614-0016	EC-4.0960M	4.096000	18 pF	100	.70
614-0018	EC-4.9152M	4.915200	18 pF	80	.70
614-0020	EC-6.144M	6.144000	18 pF	50	.70
614-0022	EC-7.3728M	7.372800	18 pF	40	.70
614-0024	EC-8.0000M	8.000000	18 pF	35	.76
614-0026	EC-8.9304M	8.930400	18 pF	35	.70
614-0028	EC-10.0000M	10.000000	18 pF	30	.70
614-0030	EC-10.738635M	10.738635	18 pF	30	.70
614-0032	EC-11.0592M	11.059200	18 pF	30	.70
614-0034	EC-11.2880M	11.288000	18 pF	30	.65
614-0036	EC-12.0000M	12.000000	18 pF	30	.70
614-0038	EC-12.2880M	12.288000	18 pF	30	.65
614-0040	EC-14.31818M	14.318180	18 pF	25	.70
614-0042	EC-14.7456M	14.745600	18 pF	25	.70
614-0044	EC-16.0000M	16.000000	18 pF	25	.70
614-0046	EC-16.9344M	16.934400	18 pF	25	.65
614-0048	EC-18.4320M	18.432000	18 pF	25	.65
614-0050	EC-19.6608M	19.660800	18 pF	25	.65
614-0052	EC-20.0000M	20.000000	18 pF	25	.74
614-0054	EC-22.5792M	22.579200	18 pF	25	.90
614-0056	EC-24.0000M	24.000000	18 pF	25	.68
614-0058	EC-24.576M	24.576000	18 pF	25	.68
614-0060	EC-25.0000M	25.000000	18 pF	25	.68

4 Pad SMD Crystal

Stock No.	Mfr.'s Type	Frequency Range	Load	ESR	EACH 1-24
614-0144	EC3SM-3.579545M	3.579545	18 pF	200	1.26
614-0146	EC3SM-3.6864M	3.686400	18 pF	200	1.26
614-0148	EC3SM-4.0000M	4.000000	18 pF	200	1.26
614-0150	EC3SM-4.0960M	4.096000	18 pF	200	1.26
614-0152	EC3SM-4.194304M	4.194304	18 pF	200	1.26
614-0154	EC3SM-4.9152M	4.915200	18 pF	200	1.26
614-0156	EC3SM-7.3728M	7.372800	18 pF	120	1.26
614-0158	EC3SM-8.1920M	8.192000	18 pF	90	1.26
614-0160	EC3SM-10.0000M	10.000000	18 pF	70	1.26
614-0162	EC3SM-11.0592M	11.059200	18 pF	70	1.26
614-0164	EC3SM-12.0000M	12.000000	18 pF	70	1.26
614-0166	EC3SM-12.2880M	12.288000	18 pF	70	1.26
614-0168	EC3SM-14.31818M	14.318180	18 pF	70	1.26
614-0170	EC3SM-14.7456M	14.745600	18 pF	70	1.26
614-0172	EC3SM-16.0000M	16.000000	18 pF	50	1.26
614-0174	EC3SM-18.4320M	18.432000	18 pF	50	1.35
614-0176	EC3SM-19.6608M	19.660800	18 pF	50	1.35
614-0178	EC3SM-20.0000M	20.000000	18 pF	50	1.43
614-0180	EC3SM-24.0000M	24.000000	18 pF	40	1.43
614-0182	EC3SM-24.576M	24.576000	18 pF	40	1.45
614-0184	EC3SM-25.0000M	25.000000	18 pF	40	1.45

Watch Crystal



Package: EC26T, EC38T, ECPSM29T, ECPSM310T. Frequency: 32.768 kHz. Frequency Tolerance: ±20 ppm. Frequency Stability: -0.042 ppm/(Δ°C) 2 maximum, parabolic; turn over temperature at 25°C ±5°C. Operating Temperature Range: -10°C to +60°C, -40°C to +85°C (ECPSM310T). Load Capacitance: 6.0 pF or 12.5 pF.

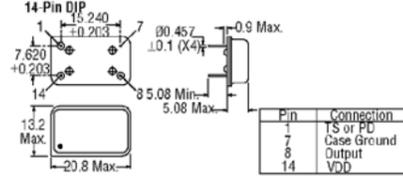
Watch Crystal

Stock No.	Mfr.'s Type	Frequency (kHz)	Load	EACH 1-24
614-0186	EC38T	32.768	12.5 pF	.30
614-0188	EC26T	32.768	12.5 pF	.41
614-0190	EC26T1	32.768	6.0 pF	.41

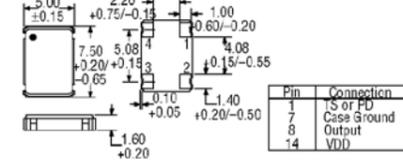
SMD Watch Crystal

Stock No.	Mfr.'s Type	Frequency (kHz)	Load	EACH 1-24
614-0192	ECPSM29T-32.768K	32.768	12.5 pF	1.34
614-0194	ECPSM310T-32.768K	32.768	12.5 pF	1.34
614-0196	ECPSM310T1-32.768K	32.768	6.0 pF	1.34

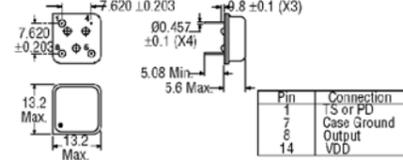
EPO™ — Ecliptek Programmable Oscillators



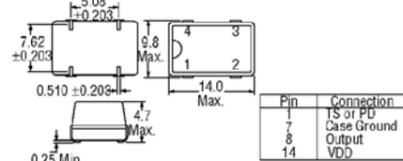
Ceramic SMD



8-Pin DIP



Plastic SMD



EP 11 00 HS ET T TS L - 64.000M

Series/Package Designator

- 11 — Metal, 5 V
- 13 — Metal, 3 V
- 14 — Plastic, 5 V
- 15 — Plastic, 3 V
- 25 — Ceramic, 5 V
- 26 — Ceramic, 3 V

Frequency Tolerance/Stability

- 00 — ±100 ppm max.
- 45 — ±50 ppm max.

Package Configuration

- Blank — Full size (14-Pin DIP) or ceramic
- HS — Half size (8-Pin DIP)
- SJ — Plastic J-lead

Operating Temperature Range

- Blank — -20°C to +70°C
- ET — -40°C to +80°C

Duty Cycle

- Blank — 50% ±10%
- T — 50 ±5%

Pin 1 Connection

- TS — Tri-state enable high
- PD — Power down

Output Type

- Blank — 3 V
- L — TTL
- C — HCMOS

Frequency

The EPO™ series programmable oscillators from Ecliptek give you the ultimate flexibility for your applications. Custom programmed in any frequency from 1 to 125 MHz, you can have the exact product you need, right now. Available in four industry standard footprints, the EPO offers features such as -40°C to +85°C operating temperature range, ±50 ppm frequency stability, and tri-state or power down option. Electrical Specifications. Packages: 14 pin DIP, 8 pin DIP, plastic SMD, ceramic SMD. Supply Voltage: 3.3 V ±0.3 VDC or 5.0 VDC ±10%. Frequency Range: 1 to 106.25 MHz (3 V) or 1 to 125 MHz (5 V). Frequency Stability: ±100 ppm or ±50 ppm. Operating Temperature Range: -20°C to -70°C or -40°C to 85°C. Duty Cycle: 50 ±10% or 50 ±5%. Pin 1 Connection: Tri-state or power down. Order as special from Allied Electronics. Call Allied Electronics for all of your programmable oscillator needs, 1-800-433-5700.

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