

ECS SMD Clock Oscillators and Tuning Fork Crystals



ECS-3951M/3953M SERIES SMD CLOCK OSCILLATORS 7.5 X 5.0MM

New Industrial Grade

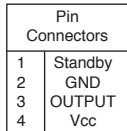
The ECS-3953M (3.3V) and ECS-3951M (5V). Series are miniature, crystal controlled, low current clock oscillators in a ceramic SMD package. Package is seam welded with a metal lid. The low profile package is ideal for today's advanced portable PC and instrumentation designs.

Features:

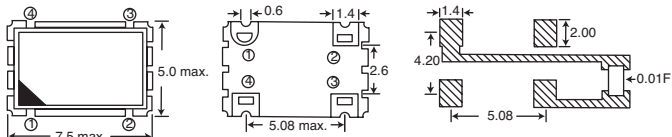
- 3.3V or 5.0V version
- Low power consumption
- Standby function
- Stability Tolerance: ±50ppm

Specifications:

- Frequency range: 1.8 to 125MHz
- Temperature range: Extended -40° to +85°
- Height: 1.6 max.



DIMENSIONS: mm



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Price Each				Reel Qty.	Price Each
			1	10	100	500		
3.3 Volts Extended Temperature								
520-3953M-036-BN	ECS-3953M-036-BN	3.686400	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-040-BN	ECS-3953M-040-BN	4.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-080-BN	ECS-3953M-080-BN	8.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-100-BN	ECS-3953M-100-BN	10.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-120-BN	ECS-3953M-120-BN	12.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-160-BN	ECS-3953M-160-BN	16.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-200-BN	ECS-3953M-200-BN	20.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-240-BN	ECS-3953M-240-BN	24.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-250-BN	ECS-3953M-250-BN	25.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-320-BN	ECS-3953M-320-BN	32.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-400-BN	ECS-3953M-400-BN	40.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-500-BN	ECS-3953M-500-BN	50.000000	3.45	2.89	1.40	1.25	1000	1.19
520-3953M-666-BN	ECS-3953M-666-BN	66.666000	5.50	4.97	4.14	3.24	1000	2.75
520-3953M-800-BN	ECS-3953M-800-BN	80.000000	5.50	4.97	4.14	3.24	1000	2.75
520-3953M-1000-BN	ECS-3953M-1000-BN	100.000000	5.50	4.97	4.14	3.24	1000	2.75
520-3953M-1250-BN	ECS-3953M-1250-BN	125.000000	5.50	4.97	4.14	3.24	1000	2.75
5 Volts Extended Temperature								
520-3951M-018-BN	ECS-3951M-018-BN	1.843200	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-040-BN	ECS-3951M-040-BN	4.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-080-BN	ECS-3951M-080-BN	8.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-100-BN	ECS-3951M-100-BN	10.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-160-BN	ECS-3951M-160-BN	16.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-200-BN	ECS-3951M-200-BN	20.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-320-BN	ECS-3951M-320-BN	32.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-400-BN	ECS-3951M-400-BN	40.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-500-BN	ECS-3951M-500-BN	50.000000	5.46	4.99	4.10	3.32	1000	2.78
520-3951M-1000-BN	ECS-3951M-1000-BN	100.000000	5.46	4.99	4.10	3.32	1000	2.78

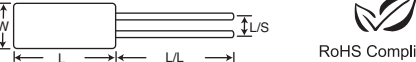


TUNING FORK CRYSTALS

DIMENSIONS: mm

Specifications:

- Operating temp.: -10°C to +60°C
- Frequency tolerance: ±20ppm



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part No.	Freq. (kHz)	Load Cap.	Dimensions				Price Each		
				W	L	L/L	L/S	1	10	100
520-TFC327-X	ECS-327-8-14-X	32.768	8	1.5	5.1	4.3	.45	3.02	2.70	2.17
520-ECS327-6-13-X	ECS-327-6-13-X	32.768	6	2.1	6.2	10	0.7	1.50	1.21	1.05
520-TFC2X6-X	ECS-327-12.5-13-X	32.768	12.5	2.1	6.2	10	0.7	.30	.27	.215
520-TFC3X8-X	ECS-327-12.5-8-X	32.768	12.5	3.1	8.2	10	1.1	.30	.27	.21

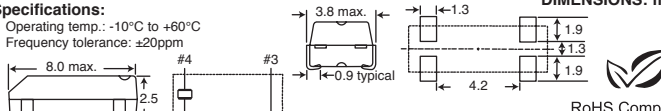


ECX-306 SMD TUNING FORK CRYSTAL, 2.5X8

DIMENSIONS: mm

Specifications:

- Operating temp.: -10°C to +60°C
- Frequency tolerance: ±20ppm



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part No.	Freq. (kHz)	Load Cap.	Price Each		
				1	10	100
520-ECS-327-6-17-X	ECS-327-6-17-X	32.768	6pf	1.31	1.13	.997
520-ECS327-12.5-17X	ECS-327-12.5-17-X	32.768	12.5pf	1.31	1.13	.99



ECS-327SMO SMD CLOCK OSCILLATOR 6.5 X 4.0MM

DIMENSIONS: mm

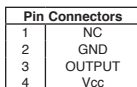
The ECS-327SMO oscillator utilizes the 32.768 KHz tuning fork crystal in a SMD ceramic package. It is designed specifically for wireless PCMCIA and portable communication equipment applications.

Features:

- 2.0mm low profile
- SMD version
- 3.3V input voltage
- Tape and reel

Specifications:

- Operating temperature: -10°C to +60°C
- Frequency stability: -60ppm/-30ppm
- Height: 2.0 max.



ECX-64A SMD QUARTZ CRYSTALS 6 X 3.5MM

The ECX-64A are subminiature SMD crystals with 3.5 x 6mm footprint. The package height measures 1.1mm max., which is ideal for densely populated PCB applications.

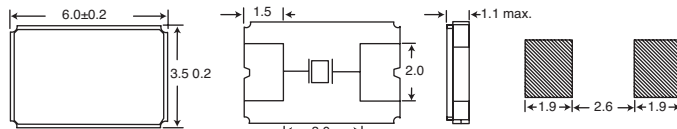
Features:

- Compact and low profile
- Glass sealed ceramic package
- Tape and reel

Specifications:

- Stability: ±50ppm
- Extended Temp.: -40°C to +85°C

DIMENSIONS: mm



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Load Cap.	Price Each			
				1	10	100	500
520-120-18-23A-EN	ECS-120-18-23A-EN	12.000000	18pF	1.13	1.01	.81	.72
520-ECS143-20-23A-EN	ECS-143-20-23A-EN	14.318180	20pf	2.94	2.45	2.20	1.76
520-147.4-18-23A-EN	ECS-147.4-18-23A-EN	14.745600	18pF	1.13	1.01	.81	.72
520-ECS147-20-23A-EN	ECS-147.4-20-23A-EN	14.745600	20pf	2.94	2.45	2.20	1.76
520-160-18-23A-EN	ECS-160-18-23A-EN	16.000000	18pF	1.13	1.01	.81	.72
520-ECS160-20-23A-EN	ECS-160-20-23A-EN	16.000000	20pf	2.94	2.45	2.20	1.76
520-ECS160-S-23A-EN	ECS-160-S-23A-EN	16.000000	Series	2.94	2.45	2.20	1.76
520-184-18-23A-EN	ECS-184-18-23A-EN	18.432000	18pF	1.13	1.01	.81	.72
520-ECS184-20-23A-EN	ECS-184-20-23A-EN	18.432000	20pf	2.94	2.45	2.20	1.76
520-ECS184-S-23A-EN	ECS-184-S-23A-EN	18.432000	Series	2.94	2.45	2.20	1.76
520-ECS196-20-23A-EN	ECS-196.6-20-23A-EN	19.660800	20pf	2.94	2.45	2.20	1.76
520-ECS196-S-23A-EN	ECS-196.6-S-23A-EN	19.660800	Series	2.94	2.45	2.20	1.76
520-200-18-23A-EN	ECS-200-18-23A-EN	20.000000	18pF	1.13	1.01	.81	.72
520-ECS200-20-23A-EN	ECS-200-20-23A-EN	20.000000	20pf	2.94	2.45	2.20	1.76
520-ECS200-S-23A-EN	ECS-200-S-23A-EN	20.000000	Series	2.94	2.45	2.20	1.76
520-240-18-23A-EN	ECS-240-18-23A-EN	24.000000	18pF	1.13	1.01	.81	.72
520-ECS240-S-23A-EN	ECS-240-S-23A-EN	24.000000	Series	2.94	2.45	2.20	1.76
520-250-18-23A-EN	ECS-250-18-23A-EN	25.000000	18pF	1.13	1.01	.81	.72
520-270-18-23A-EN	ECS-270-18-23A-EN	27.000000	18pF	1.13	1.01	.81	.72

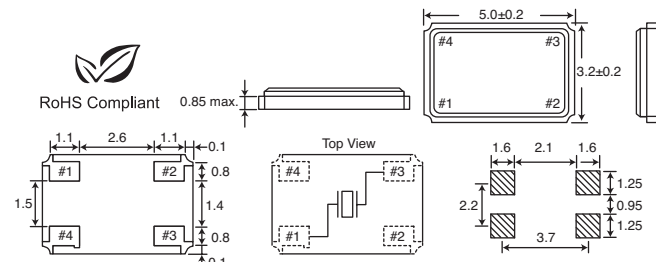


ECX-53B-DU SMD CRYSTAL WITH EXTENDED TEMPERATURE 5.0 X 3.2MM

DIMENSIONS: mm

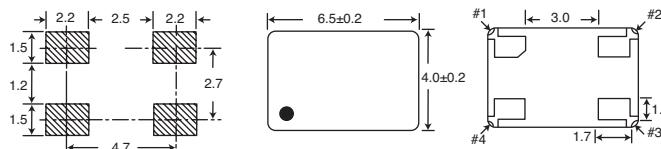
Specifications:

- Frequency range: 10 (min.) - 150 (max.)MHz
- Operating temperature: -55° to +125°C
- Load capacitance: 20pF



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Price Each				Reel Qty.	Price Each
			1	10	100	500		
520-100-20-30B-DU	ECS-100-20-30B-DU	10.0000	1.77	1.59	1.32	1.06	1000	.88
520-120-20-30B-DU	ECS-120-20-30B-DU	12.0000	1.77	1.59	1.32	1.06	1000	.88
520-143-20-30B-DU	ECS-143-20-30B-DU	14.31818	1.77	1.59	1.32	1.06	1000	.88
520-160-20-30B-DU	ECS-160-20-30B-DU	16.0000	1.77	1.59	1.32	1.06	1000	.88
520-200-20-30B-DU	ECS-200-20-30B-DU	20.0000	1.77	1.59	1.32	1.06	1000	.88
520-240-20-30B-DU	ECS-240-20-30B-DU	24.0000	1.77	1.59	1.32	1.06	1000	.88
520-250-20-30B-DU	ECS-250-20-30B-DU	25.0000	1.77	1.59	1.32	1.06	1000	.88
520-270-20-30B-DU	ECS-270-20-30B-DU	27.0000	1.77	1.59	1.32	1.06	1000	.88
520-300-20-30B-DU	ECS-300-20-30B-DU	30.0000	1.77	1.59	1.32	1.06	1000	.88
520-320-20-30B-DU	ECS-320-20-30B-DU	32.0000	1.77	1.59	1.32	1.06	1000	.88
520-400-20-30B-DU	ECS-400-20-30B-DU	40.0000	1.94	1.79	1.52	1.26	1000	1.08



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Voltage	Price Each			
				1	10	100	500
520-ECS-327SMO	ECS-327SMO	32.768	3.3	7.65	6.24	5.64	5.23