

Component Programming Service Epson Crystal-Oscillators



EPSON®

Our Services includes:

- ✓ Fully automated programming tailored to your specific project requirements
- ✓ Delivery on Tape&Reel (MOQ 100 pcs.) or ESD Bag (<100 pcs.)
- ✓ No minimum order quantities - No packaging units
- ✓ Industrial production and just-in-time delivery
- ✓ Europe's largest stock of Epson Programmable Blank-Components
- ✓ 100% Traceability and Quality Assurance
- ✓ Predictability ensured through highest availability
- ✓ Customized Logistics Solutions
- ✓ 24h Delivery within Germany (optional)

With our fully automated component programming and in-house SMD-taping at our site in Esslingen (Germany), complemented by Europe's largest warehouse of programmable Epson Blank-Components, we are able to handle any demand and shipping requirements for our customers all over the world.

As a longstanding and experienced EPSON technology and distribution partner since 1990, it is our commitment to fully meet the industrial requirements and customer needs in terms of technical, qualitative and logistical aspects.

Technical highlights include low phase jitter, an extended temperature range, various package sizes and a Spread Spectrum series type. With the new SG-8200/8201 series (Automotive certified) and the innovative 2.0x1.6 mm package size, Epson is setting trends and redefining the miniaturization landscape as a pioneer in the crystal-oscillator market.

Simplify your Procurement with our interactive online configuration Tool

In just a few simple steps, you can customize your specific crystal-oscillator according to your technical parameters and place your order. Follow-up orders for previously configured setups can be effortlessly initiated through your online customer account.



[Click here to access the configurator](#)





Standard programmable Crystal-Oscillator Series

	Ideal for 5 V applications	The standard series for new designs		Spread Spectrum
Size (mm)	7.0x5.0 5.0x3.2 3.2x2.5 2.5x2.0	SG-8002 CA (NRND) SG-8002 CE (NRND)	SG-8018 CA SG-8018 CB SG-8018 CE SG-8018 CG	SG-8101 CA SG-8101 CB SG-8101 CE SG-8101 CG
Frequency	1-125 MHz	0.67-bis 170 MHz	0.67-bis 170 MHz	0.67-170 MHz
Technology	Integer-N PLL	Fractional-N PLL	Fractional-N PLL	Fractional-N PLL
Function	Output Enable (OE) Standby (ST)	Output Enable (OE) Standby (ST)	Output Enable (OE) Standby (ST)	Output Enable (OE) Standby (ST)
Frequency tolerance	+/-50 ppm (-20°C bis +70°C) +/-100 ppm (-20°C bis +70°C) +/-100 ppm (-40°C bis +85°C)	+/-50 ppm (-40°C bis +105°C)	+/-15 ppm (-40°C bis +85°C) +/-20 ppm (-40°C bis +105°C) +/-50 ppm (-40°C bis +105°C)	+/-50 ppm (-40°C bis +105°C)
Product-Highlights	3.0V / 3.3V / 5.0V	Large Frequency range High Stability Wide temperature range	Large Frequency range High Stability Wide temperature range	3 Modulation profiles 4 Modulation frequencies Down-/ und Center Spread 6 spreading types
Consumption	28mA bis 45mA	2.7mA bis 6.8mA	2.7mA bis 6.8mA	2.9mA bis 8.3mA
Jitter	>250 ps (Phase Jitter)	<50 ps (Phase Jitter)	<50 ps (Phase Jitter)	128,8ps bei 25MHz(Circle Jitter)
Output-Signal	CMOS, TTL	LV-CMOS	LV-CMOS	LV-CMOS

NEW Small-Size Series

	SG-8200	SG-8201	SG-8201 Automotive
Size (mm)	CJ 2.0 x 1.6 x 0.6	CJ 2.0 x 1.6 x 0.6	CJ 2.0 x 1.6 x 0.6
Frequency	1.2 - 170 MHz	1.2 - 170 MHz	1.2 - 170 MHz
Technology	Fractional-N PLL	Fractional-N PLL	Fractional-N PLL
Function	Output Enable (OE) Standby (ST)	Output Enable (OE) Standby (ST)	Output Enable (OE) Standby (ST)
Frequency-tolerance	+/-50 ppm (-40°C bis +125°C)	+/-15 ppm (-40°C bis +105°C) +/-25 ppm (-40°C bis +125°C)	+/-15 ppm (-40°C bis +105°C) +/-25 ppm (-40°C bis +125°C) +/-50 ppm (-40°C bis +125°C)
Product-Highlight	Small Size Wide Temperature range Ideal for Standard Industrial Application	Small Size Wide Temperature range low Phase Jitter	Small Size low Phase Jitter AEC-Q100 conformity
Curr. Consumption	5.2mA max. (1.8V) 5.4mA max. (2.5V) 5.6mA max. (3.3V)	5.2mA max. (1.8V) 5.4mA max. (2.5V) 5.6mA max. (3.3V)	5.2mA max. (1.8V) 5.4mA max. (2.5V) 5.6mA max. (3.3V)
Jitter	1.2 ps	1.2 ps	1.2 ps
Output-Signal	LV-CMOS	LV-CMOS	LV-CMOS