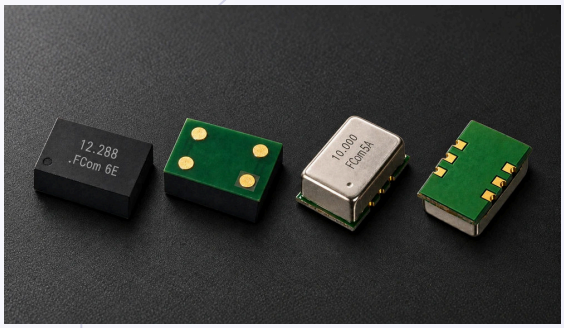
5 – 40 MHZ FREQUENCY CONTROL

OCXO

Oven-Controlled
Crystal Oscillators

DIP & SMD Packages | **Low Noise Options**



DIP Packages | SMD Packages | ±3 ppb Stability | Low Noise · −162 dBc/Hz

One platform. A choice of stability and noise.

Compare the full OCXO range in a consistent, series-by-series list. Review package, frequency range, supply voltage, stability, temperature range, output and phase noise before selecting a configuration.

08	02	±3 ppb	40 MHz
Individual series in one guide	Product groups for comparison	Tightest stability option	Highest output frequency

7 SERIES

Standard OCXO

14-pin DIP and 20×20 to 36×27 through-hole packages, plus 9×7, 14×9 and 25×22 mm surface-mount options.

Full selection list · Page 02

1 SERIES

Low Noise OCXO

FOC-5S-LN in a 14×9 mm 6-SMD package, with lower phase noise from 10 Hz through 10 kHz.

Low noise selection · Page 03

Compare the series. Confirm the configuration.

Click a series name or View PDF to open its datasheet. Confirm the latest controlled specifications — stability reference temperature, supply voltage, output waveform and phase-noise conditions — before placing an order.

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01 Standard OCXO

Through-hole DIP and surface-mount oven-controlled crystal oscillators.
Each series is listed separately for direct comparison.

Frequency range: 5 – 40 MHz — **7 SERIES · DIP & SMD**

Photo	Series	Package	Frequency Range	Supply Voltage	Tightest Stability[1] ppb	Widest Temp. Range[1] °C	Output	Phase Noise[2] dBc/Hz @10 Hz	@100 Hz	@1 kHz	@10 kHz	Mount	Datasheet PDF
Standard OCXO · DIP & SMD packages													7 SERIES
	FOC-1D	**14 Pin DIP** 20.3 × 12.7 mm	10 – 40 MHz	3.3 V, 5 V	±50	-40 to +85	Rectangular, Sine Wave	-105	-130	-140	-150	DIP	View PDF ↗
	FOC-2D	**20×20 5 Pin** 20.6 × 20.6 mm	5 – 40 MHz	3.3 V, 5 V	±5	-40 to +85	HCMOS, Sine Wave	-115	-135	-145	-150	DIP	View PDF ↗
	FOC-3D	**25×25 5 Pin** 25.4 × 25.4 mm	5 – 40 MHz	3.3 V, 5 V	±3	-40 to +85	TTL, Sine Wave	-120	-135	-145	-150	DIP	View PDF ↗
	FOC-4D	**36×27 5 Pin** 36.3 × 27.2 mm	5 – 40 MHz	3.3 V, 5 V	±3	-40 to +85	TTL, Sine Wave	-120	-135	-145	-150	DIP	View PDF ↗
	FOC-5S	**14×9 6-SMD** 14.7 × 9.6 mm	10 – 40 MHz	3.3 V, 5 V	±10	-40 to +85	HCMOS, Sine Wave	-92	-120	-140	-150	SMD	View PDF ↗
	FOC-6S	**25×22 7-SMD** 25.4 × 22.1 mm	5 – 40 MHz	3.3 V, 5 V	±5	-40 to +85	HCMOS	-115	-130	-140	-150	SMD	View PDF ↗
	FOC-7S	**9×7 4-SMD** 9.7 × 7.5 mm	10 – 40 MHz	3.3 V	±5	-40 to +85	CMOS, Clipped Sine Wave	-92	-120	-140	-150	SMD	View PDF ↗

Product images are for identification. Refer to the series drawing for exact dimensions, pin assignments and recommended land pattern.

Read the parameters together

1. Tightest stability and widest operating temperature range describe series options. They are not necessarily available in the same configuration, and stability is normally specified against a reference temperature rather than across the full temperature range.

2. Phase-noise figures are selection summaries at the listed offsets. They do not establish a guaranteed limit. Confirm the applicable curve, output waveform, supply voltage and measurement conditions in the selected series datasheet.

02 Low Noise OCXO

A single low-noise series built on the 14×9 mm 6-SMD footprint, with reduced phase noise across the offset range.

Frequency range: 10 – 40 MHz — **1 SERIES · SURFACE MOUNT**

Photo	Series	Package	Frequency Range	Supply Voltage	Tightest Stability[1] ppb	Widest Temp. Range[1] °C	Output	Phase Noise[2] dBc/Hz @10 Hz	@100 Hz	@1 kHz	@10 kHz	Mount	Datasheet PDF
Low Noise OCXO · Surface mount													1 SERIES
	FOC-5S-LN	**14×9 6-SMD** 14.7 × 9.6 mm	10 – 40 MHz	3.3 V, 5 V	±5	-40 to +85	Rectangular	-120	-145	-157	-162	SMD	View PDF ↗

The low noise designation applies to FOC-5S-LN only. Images are for identification and are not to scale.

Standard vs low noise · same 14×9 mm footprint

Both series share the 14×9 mm 6-SMD package and the same ±5 ppb / -40 to +85 °C selection window. The difference is phase noise.

Offset	FOC-5S (standard)	FOC-5S-LN (low noise)	Improvement
@10 Hz	-92 dBc/Hz	-120 dBc/Hz	**28 dB**
@100 Hz	-120 dBc/Hz	-145 dBc/Hz	**25 dB**
@1 kHz	-140 dBc/Hz	-157 dBc/Hz	**17 dB**
@10 kHz	-150 dBc/Hz	-162 dBc/Hz	**12 dB**

Values are taken from the series summaries in this guide and are shown to illustrate the relative difference. Confirm the guaranteed limits in the applicable datasheet.

Before selecting an ordering code

1. Confirm the stability reference temperature and the compatibility of stability, supply voltage, output waveform and operating temperature options. The tightest stability is not a full-temperature stability specification.

2. Low-noise performance depends on output waveform, supply voltage and load conditions. Confirm the applicable phase-noise curve and test conditions in the series datasheet.

Need help matching an OCXO?

Share your preferred series, required stability, output waveform, supply voltage and application environment with FCom for specification review.

Technical support ↗

Visit FCom ↗

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