

32.768 KHZ FREQUENCY CONTROL

Tuning Fork Crystals

Product Selection Guide

**Compact SMD
& Leaded Packages****Low CL
& Automotive Options**

Standard SMD

Low CL · 3 pF

Through-hole

Automotive Series

One frequency. A choice of packages.

Compare the full tuning fork crystal range in a consistent, series-by-series list. Review package, tolerance, temperature, load capacitance and ESR before selecting a configuration.

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Individual series
in one guide

04

Product groups
for comparison

3 pF

Low CL options
in two series

1210

Miniature SMD
package option

12 SERIES**Standard SMD**

Miniature 1210, 1610, 2012 and 3215 packages, plus leaded and cylindrical SMD options.

[Full selection list · Page 02](#)**2 SERIES****Low Load Capacitance**

3 pF CL options in 2012 and 3215 packages: FCT-2M-LC and FCT-3M-LC.

[Low CL selection · Page 03](#)**4 SERIES****Through-Hole Packages**

Cylindrical can options in $\varnothing 2 \times 6$ mm and $\varnothing 3 \times 8$ mm packages.

[Through-hole selection · Page 03](#)**1 SERIES****Automotive Selection**

FCT-3M-A in a 3215 2-SMD package. AEC-Q200 designation applies to this series only.

[Automotive 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 before placing an order.

01

SMD Tuning Fork Crystals

Miniature SMD, leaded SMD and cylindrical SMD packages.
Each series is listed separately for direct comparison.

Nominal frequency: 32.768 kHz

12 SERIES · SURFACE MOUNT

Photo	Series	Package	Tightest tolerance ¹ ppm	Widest temp. range ¹ °C	CL ² pF	ESR ² kΩ	Datasheet PDF
	FCT-1S	1210 2-SMD	±5	-40 to +125	6-12.5	70-90	View PDF ↗
	FCT-1D	1210 4-SMD	±20	-40 to +95	6-12.5	70-90	View PDF ↗
	FCT-1M	1610 2-SMD	±5	-40 to +125	6-12.5	70-90	View PDF ↗
	FCT-2M	2012 2-SMD	±5	-40 to +125	6-12.5	70-90	View PDF ↗
	FSX-215	2012 2-SMD	±5	-40 to +125	6-12.5	70-90	View PDF ↗
	FCT-3M	3215 2-SMD	±5	-40 to +125	6-12.5	70-90	View PDF ↗
	FSX-3215	3215 2-SMD	±5	-40 to +125	6-12.5	70-90	View PDF ↗
	FCT-6M	4-SMD Flat leads	±5	-40 to +90	6-12.5	65	View PDF ↗
	FSX-145	4-SMD Flat leads	±5	-40 to +90	6-12.5	65	View PDF ↗
	FCT-8M	4-SOJ 5.50 mm pitch	±5	-40 to +90	6-12.5	50	View PDF ↗
	FTS-26M	4-SOJ 5.50 mm pitch	±5	-40 to +90	6-12.5	50	View PDF ↗
	FTS-26B	Ø2 × 6 mm Cylindrical SMD	±5	-40 to +90	6-12.5	40	View PDF ↗

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

Read the parameters together

1.

Tightest tolerance and widest operating temperature range describe series options. They are not necessarily available in the same configuration. Initial tolerance does not describe stability over the full temperature range.

2.

CL and ESR values are selection summaries. Confirm available CL options, ESR limits and measurement conditions in the selected series datasheet.

02

Low CL, Through-Hole & Automotive Crystals

3 pF CL options, cylindrical through-hole packages and automotive selection.

Nominal frequency: 32.768 kHz

7 SERIES · 3 PRODUCT GROUPS

Photo	Series	Package	Tightest tolerance¹ ppm	Widest temp. range¹ °C	CL² pF	ESR² kΩ	Datasheet PDF
Low CL · Surface mount							2 SERIES
	FCT-2M-LC	2012 2-SMD	±20	-40 to +125	3	80	View PDF ↗
	FCT-3M-LC	3215 2-SMD	±20	-40 to +125	3	70	View PDF ↗
Through-hole · Cylindrical can							4 SERIES
	FCT-2T	Ø2 × 6 mm Cylindrical can	±5	-40 to +90	6-12.5	40	View PDF ↗
	FTS-26	Ø2 × 6 mm Cylindrical can	±5	-40 to +90	6-12.5	40	View PDF ↗
	FCT-3T	Ø3 × 8 mm Cylindrical can	±5	-40 to +90	6-12.5	30	View PDF ↗
	FTS-38	Ø3 × 8 mm Cylindrical can	±5	-40 to +90	6-12.5	30	View PDF ↗
AEC-Q200 Automotive · Surface mount							1 SERIES
	FCT-3M-A	3215 2-SMD	±10	-40 to +125	6-12.5	70	View PDF ↗

Automotive designation applies to FCT-3M-A only. Images are for identification and are not to scale.

Before selecting an ordering code

1. Confirm the tolerance reference temperature and compatibility of tolerance, CL and operating temperature options. The tightest tolerance is not a full-temperature stability specification.

2. ESR figures summarize the series range; they do not establish a guaranteed maximum. Confirm the applicable rating, CL options and test conditions in the series datasheet.

Need help matching a crystal?

Share your preferred series, CL, temperature range and oscillator IC with FCom for specification review.

Technical support ↗

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