

CFPS-53x AUTO

Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and with IATF-16949:2016 release.Not suitable for safety critical applications.

Model Name	Description
CFPS-53 AUTO	1.8V Version
CFPS-54 AUTO	2.5V Version
CFPS-56 AUTO	3.3V Version



Crystal Clock Oscillator Specification CFPS-54 AUTO

ISSUE 1; July 2019

Description

 Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and with IATF-16949:2016 release.
 Not suitable for safety critical applications.

Frequency Parameters

■ Frequency
 ■ Frequency Stability
 ■ Ageing
 2.0MHz to 50.0MHz
 ±25.00ppm to ±100.00ppm
 ±5ppm max per year @ 25°C

Electrical Parameters

■ Supply Voltage 2.5V ±5%

Operating Temperature Ranges

■ -40 to 85°C

■ -40 to 125°C

Output Details

Output Compatibility CMOSDrive Capability 15pF

Output Control

Enable/Disable Operation:

Logic '1' (>70% Vs) to pad 1 enables oscillator output. Logic '0' (<30% Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state. No connection to pad 1 enables oscillator output.

Standby Current:
 -40 to 85°C: 10μA max
 -40 to 125°C: 20μA max

Environmental Parameters

Storage Temperature Range: -55 to 150°C

Qualified to AEC-Q200

Ordering Information

Frequency*Model*Output

Frequency Stability*

Operating Temperature Range*

Supply Voltage

(*minimum required)

Example

20.0MHz CFPS-54 AUTO

CMOS ±100ppm -40 to 125C 2.5V

Compliance

RoHS Status (2011/65/EU)
 REACh Status
 MSL Rating (JDEC-STD-033):
 Not Applicable

Packaging Details

■ Pack Style: RL3K Tape & reel in accordance with EIA-481-D

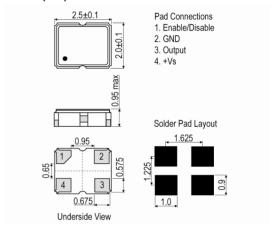
Pack Size: 3,000

■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

Pack Size: 1,000



Outline (mm)





Crystal Clock Oscillator Specification CFPS-54 AUTO

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Electrical Specification - maximum limiting values 2.5V ±5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
2.0MHz	9.999999MHz	-40 to 85	±25.0	6	7	40/60%
		-40 to 125	±50.0	6	7	40/60%
10.0MHz	19.999999MHz	-40 to 85	±25.0	8	7	40/60%
		-40 to 125	±50.0	8	7	40/60%
20.0MHz	31.999999MHz	-40 to 85	±25.0	8	6	40/60%
		-40 to 125	±50.0	8	6	40/60%
32.0MHz 50.0MHz	50.0MHz	-40 to 85	±25.0	20	5	40/60%
		-40 to 125	±50.0	20	6	40/60%

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Crystal Clock Oscillator Specification CFPS-56 AUTO

ISSUE 1; July 2019

Description

 Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and with IATF-16949:2016 release.
 Not suitable for safety critical applications.

Frequency Parameters

■ Frequency
 ■ Frequency Stability
 ■ Ageing
 ±25.00ppm to ±100.00ppm
 ±5ppm max per year @ 25°C

Electrical Parameters

■ Supply Voltage 3.3V ±10%

Operating Temperature Ranges

-40 to 85°C

-40 to 125°C

Output Details

Output Compatibility CMOSDrive Capability 15pF

Output Control

Enable/Disable Operation:

Logic '1' (>70% Vs) to pad 1 enables oscillator output. Logic '0' (<30% Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state. No connection to pad 1 enables oscillator output.

Standby Current:
 -40 to 85°C: 10μA max
 -40 to 125°C: 20μA max

Environmental Parameters

Storage Temperature Range: -55 to 150°C

Qualified to AEC-Q200

Ordering Information

Frequency* Model*

Output

Frequency Stability*

Operating Temperature Range*

Supply Voltage

(*minimum required)

Example

20.0MHz CFPS-56 AUTO

CMOS ±100ppm -40 to 125C 3.3V

Compliance

RoHS Status (2011/65/EU)
 REACh Status
 MSL Rating (JDEC-STD-033):
 Not Applicable

Packaging Details

■ Pack Style: Cutt In tape, cut from a reel

Pack Size: 100

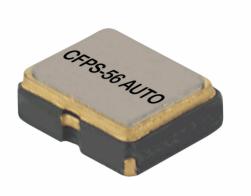
■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

Pack Size: 1,000

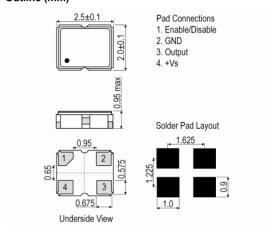
Pack Style: RL3K Tape & reel in accordance with EIA-481-D

Pack Size: 3,000





Outline (mm)





Crystal Clock Oscillator Specification CFPS-56 AUTO

ISSUE 1; July 2019

Electrical Specification - maximum limiting values 3.3V ±10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
2.0MHz	9.999999MHz	-40 to 85	±25.0	7	6	40/60%
		-40 to 125	±50.0	7	6	40/60%
10.0MHz	19.999999MHz	-40 to 85	±25.0	7	6	40/60%
		-40 to 125	±50.0	7	6	40/60%
20.0MHz	31.999999MHz	-40 to 85	±25.0	12	5	40/60%
		-40 to 125	±50.0	12	5	40/60%
32.0MHz	50.0MHz	-40 to 85	±25.0	20	5	40/60%
		-40 to 125	±50.0	20	5	40/60%

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