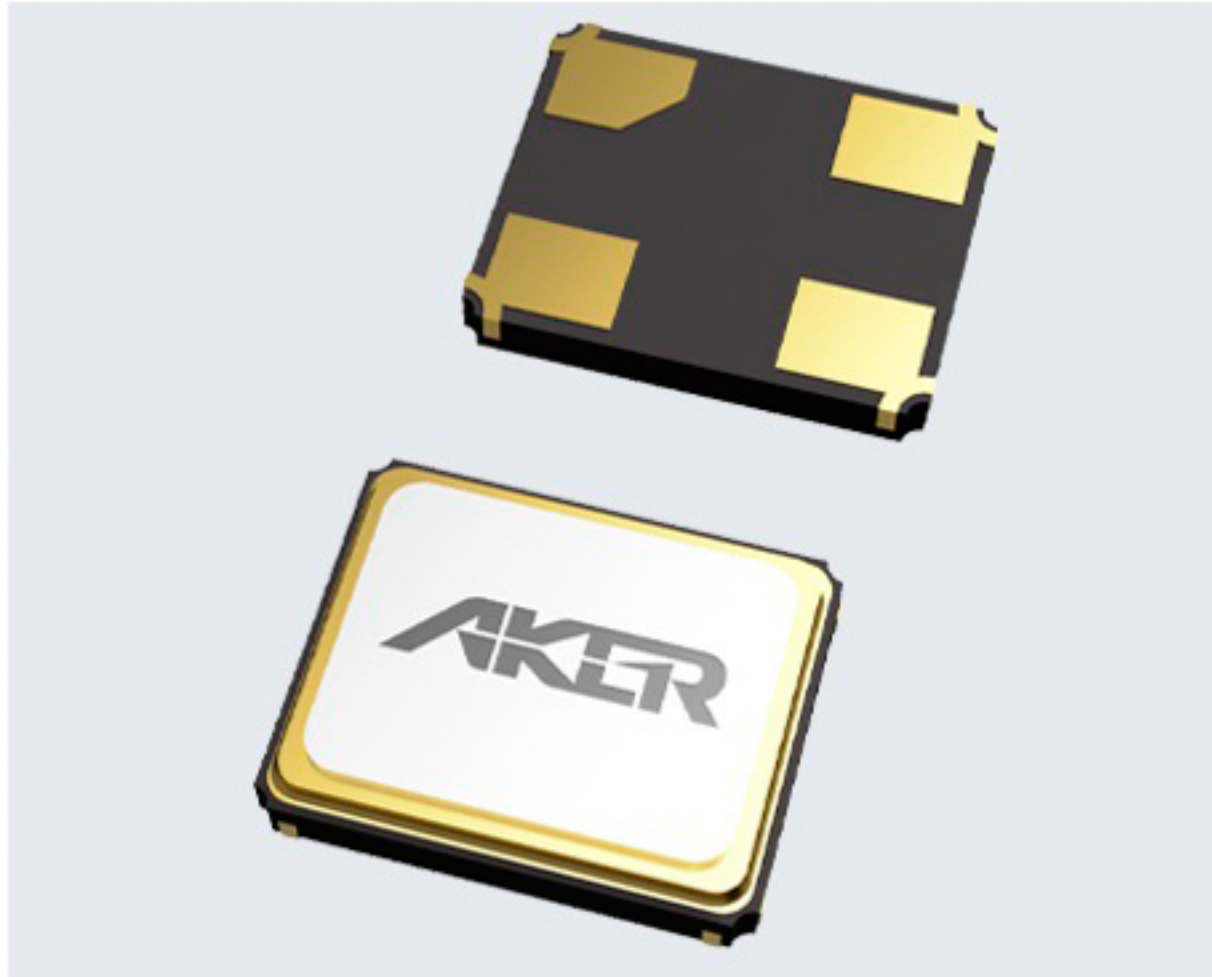


CRYSTAL UNITS

Automotive Grade

ACTUAL SIZE: ☐

CXAF-012288-2F20E20 CERAMIC PACKAGE



APPLICATIONS

- ▶ Camera
- ▶ TPMS
- ▶ AVM

FEATURES

- ▶ Seam Seal
- ▶ Excellent Solderability
- ▶ Excellent Vibration Resistance & Shock Resistance
- ▶ High Frequency Stability
- ▶ Excellent Thermal Hysteresis
- ▶ RoHS Compliant
- ▶ IATF-16949 Certified
- ▶ AEC-Q200 Qualified

Specification

MODEL

DIMENSION	(mm)	2.50 X 2.00
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FREQUENCY

FREQUENCY RANGE (Fundamental)	MHz	12.000 ~ 66.999
FREQUENCY RANGE (3rd Overtone)	MHz	67.000 ~ 133.000
FREQUENCY TOLERANCE (25°C)	ppm	± 10 ~ ± 100
FREQUENCY STABILITY (Ref to 25°C)	ppm	± 20 ~ ± 100 ± 50 ~ ± 100

ENVIRONMENTAL CONDITION

OPERATING TEMPERATURE RANGE	°C	- 40 ~ + 85 Or - 40 ~ + 125 - 55 ~ + 125
STORAGE TEMPERATURE RANGE	°C	- 55 ~ + 150
AGING / YEAR	ppm	± 3

ELECTRICAL SPECIFICATIONS

TEST CIRCUIT		S&A 250B With π Fixture
LOAD CAPACITANCE	pF	SERIES, 6pF to 47pF, or Specify
DRIVE LEVEL	uW	15, 30, 50, 100, 200 or special requirement
EQUIVALENT SERIES RESISTANCE	Ω	See Table
SHUNT CAPACITANCE	pF	2.0 Max.

*Specification subject to change without notice.

Equivalent Series Resistance (Ω)

Frequency Range	Mode of Operation	ESR
12.000 ~ 15.999	Fundamental	150 Ω Max.
16.000 ~ 19.999	Fundamental	80 Ω Max.
20.000 ~ 24.999	Fundamental	60 Ω Max.
25.000 ~ 29.999	Fundamental	50 Ω Max.
30.000 ~ 34.999	Fundamental	45 Ω Max.
35.000 ~ 66.999	Fundamental	40 Ω Max.
67.000 ~ 133.000	3rd Overtone	100 Ω Max.

Dimension(mm)

