

CRYSTAL UNITS- Automotive Grade

CXF-531 SERIES

CERAMIC PACKAGE



Applications

- Camera
- Media
- TPMS

Features

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

• Actual Size:

MODEL

DIMENSION	(mm)	5.00 x 3.20
FREQUENCY		
FREQUENCY RANGE (Fundamental)	MHz	8,000 ~ 52,000
FREQUENCY RANGE (3rd Overtone)	MHz	40,000 ~ 133,000
FREQUENCY TOLERANCE (25°C)	ppm	± 10 ~ ± 100
FREQUENCY STABILITY (Ref to 25°C)	ppm	± 20 ~ ± 100
ENVIRONMENTAL CONDITION		
OPERATING TEMPERATURE RANGE	°C	- 40 ~ + 85 or - 40 ~ + 125
STORAGE TEMPERATURE RANGE	°C	- 55 ~ + 150
AGING / YEAR	ppm	± 3
ELECTRICAL SPECIFICATIONS		
TEST CIRCUIT		S&A 350A With π Fixture
LOAD CAPACITANCE	pF	SERIES, 6pF to 47pF, or Specify
DRIVE LEVEL	uW	15, 30, 50, 100, 200, 500 or special requirement
EQUIVALENT SERIES RESISTANCE	Ω	See Table
SHUNT CAPACITANCE	pF	7.0 (Max.)

Equivalent Series Resistance (Ω)

Frequency Range	Mode of Operation	ESR
8,000 ~ 10,000	Fundamental	150Ω Max.
10,001 ~ 12,000	Fundamental	90Ω Max.
12,001 ~ 15,000	Fundamental	70Ω Max.
15,001 ~ 20,000	Fundamental	50Ω Max.
20,001 ~ 30,000	Fundamental	40Ω Max.
30,001 ~ 40,000	Fundamental	30Ω Max.
40,001 ~ 52,000	Fundamental	20Ω Max.
40,000 ~ 80,000	3rd Overtone	100Ω Max.
80,001 ~ 133,000	3rd Overtone	80Ω Max.

Dimension(mm)

CXF-531

