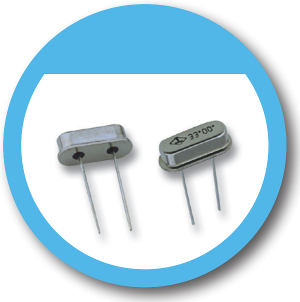
11.1 x 4.68 mm Crystal – XI Type



RoHS Compliant Standard

FEATURE

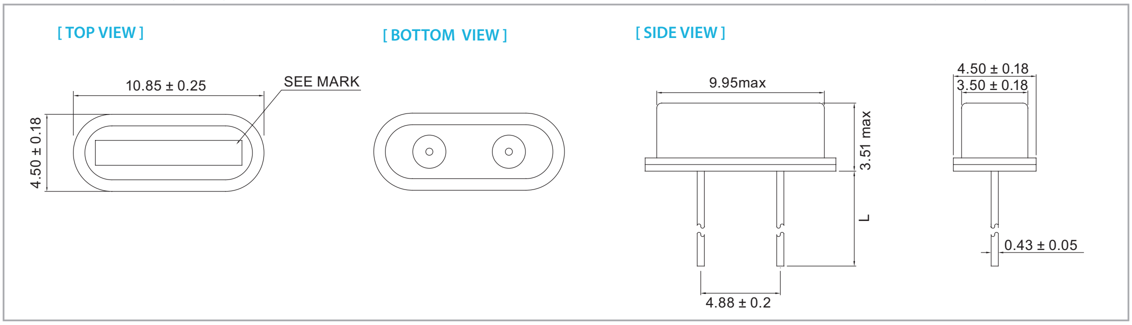
- Typical 11.1 x 4.68 x 3.51 mm standard footprint.
- Low profile for close PCB stacking.
- Packing: Plastic bag 200/500 pcs or Ammopack 1000pcs (800pcs).

TYPICAL APPLICATION

- Automotive
- Bluetooth, Wireless
- Computers, Modems, Communications
- Set-top Box, DECT/WDCT

DIMENSION (mm)

SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	Min.	Typical	Max.	Unit
Storage Temp. Range	-55	-	125	˚C
Level of Drive	-	10	800	μw
Shunt Capacitance (Co)	-	-	7.0	pF
Insulation Resistance	500 MΩ @ DC100V	-	-	
Aging	First year: ±5.0 ; Sub year: ±5.0			ppm / year

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

EQUIVALENT SERIES RESISTANCE (E.S.R)

TYPE FREQUENCY	MODE	E.S.R
Freq. ≦ 4 MHz	A1	140Ω
4 MHz < Freq. < 5 MHz	A1	120Ω
5 MHz ≦ Freq. < 7 MHz	A1	80Ω
7 MHz ≦ Freq. < 9 MHz	A1	45Ω
9 MHz ≦ Freq. < 13 MHz	A1	40Ω
13 MHz ≦ Freq. < 16 MHz	A1	35Ω
16 MHz ≦ Freq. < 20 MHz	A1	30Ω
20 MHz ≦ Freq. < 30 MHz	A1	25Ω
30 MHz ≦ Freq. < 36 MHz	A1	25Ω
30 MHz ≦ Freq. < 36 MHz	A3	80Ω
36 MHz ≦ Freq. < 80 MHz	A3	80Ω

FREQ. STABILITY vs. LOAD CAPACITANCE

Load Capacitance \ ppm	±5	±10	±15	±20	±30
8pF	×	×	△	○	○
10pF	×	×	△	○	○
12pF	×	△	○	○	○
16pF	×	△	○	○	○
Series	△	○	○	○	○

* ○: Available △:Conditional X: Not available

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C) \ ppm	±5	±10	±15	±20
-10 ~ +60	×	○	○	○
-20 ~ +70	×	△	○	○
-40 ~ +85	×	×	×	○

* ○: Available △:Conditional X: Not available