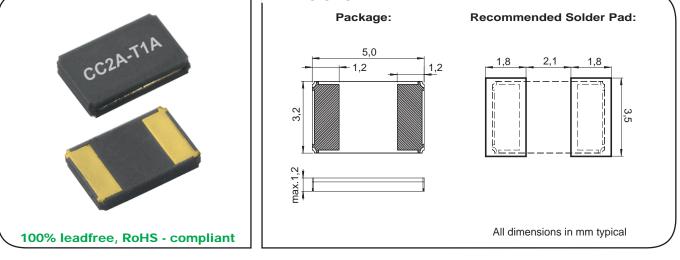


C2A-T1 AT Crystal 12 MHz – 70 MHz

DIMENSIONS



SMT ceramic package height 1.2 mm Fundamental mode up to 70MHz Ind. and Ext. temperature ranges High stability and low aging High shock and vibration resistance Hermetically sealed Ultra low MSL **Excellent solderability** Swiss made quality **Customer specification on request**

DESCRIPTION:

This quartz Crystal in SMD ceramic package has been specially designed with Micro Crystal photolitographic process for surface mount using infrared, vapor phase or epoxy technics

APPLICATIONS:

- Avionics
- Radio transceiver _
- Satellite communications -
- -Airborne equipments

The crystals are supplied in trays (128 crystals per tray).

For pick-and-place equipment, the parts are available in 12mm tapes:

- 7" with 1'000 crystals 7" with 2'000 crystals

ELECTRICAL CHARACTERISTICS AT 25°C:

| Frequency Range | | FL | 10 – 70 | MHz |
|---|----|----------------|-----------------|-----|
| Load capacitance | 1) | CL | 20 | pF |
| Frequency tolerance at 25°C | 2) | $\Delta F/F$ | +/-50 | ppm |
| Frequency versus temperature TB: -40 to + 85°C TC: -55 to + 125°C | 3) | $\Delta F/F_0$ | +/-50 +/-100 | ppm |
| Drive level typ/max | | Р | 100/250 | μW |
| Insulation resistance min. | | R _i | 500 | MΩ |
| Aging first year max. | | $\Delta F/F$ | +/-3 | ppm |

1) Other load capacitances on request;

2) Tighter and wider frequency tolerances on request;

3) Tighter thermal stability on request;

| Frequency [MHz] | Rs[Ω] typ/max | C1 [fF] typ/max | Co [pF] typ |
|-----------------|------------------|--------------------|----------------|
| 12 to < 14 | 60 / 100 | 3 / 5 | 2 |
| 14 to < 18 | 40 / 80 | 5 / 8 | 2.5 |
| 18 to < 24 | 20 / 60 | 8 / 10 | 3 |
| 24 to < 40 | 15 / 50 | 10 / 12 | 4 |
| 40 to ≤ 70 | 10 / 40 | 12 / 14 | 5 |

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18924600166 QQ: 857950243 http://www.vc-tcxo.com

STANDARD FREQUENCIES:

| Frequency MHz | | | | | | | |
|--|---------|---------|--------|----------|---------|--|--|
| 12.0000 | 14.7456 | 16.0000 | 16.384 | 20.0000 | 24.0000 | | |
| 24.576 | 25.0000 | 25.6 | 32.768 | 40. 0000 | | | |
| Other frequencies from 12 MHz up to 70 MHz on request | | | | | | | |

ENVIRONMENTAL CHARACTERISTICS:

ConditionsStorage temp. range-55 to +125°CTB Operating temperature range-40 to +85°CTC Extended operating temp. range-55 to +125°CShock resistance5000 g, 0.3 ms, ½ sineVibration resistance20 g / 10–2000 Hz

Termination

For SMD mounting

Au plated pads

For SMD mounting

Sn/Ag/Cu plated

Processing

Reflow soldering

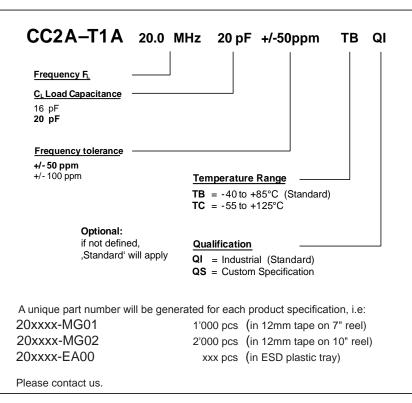
+260°C / 20 s max.

Reflow soldering

+260°C / 20 s max.

TERMINATIONS AND PROCESSING:

| PRODUCT DESCRIPTION AND |
|-------------------------|
| ORDERING INFORMATION: |



All specifications subject to change without notice.

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Туре

CC2A-T1A

CC2A-T3A