

CC6A-T1AH up to 200°C AT Crystal 16 MHz – 40 MHz



Package:
Bottom view

3,5

1,2

1,3

1,2

0,8

Pin 2 NC
pin 4 NC
pin 1/3 Quartz crystal
All dimensions in mm typical

Suitable for Downhole application SMT ceramic package height 0.9 mm Fundamental mode up to 40MHz Extremes 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:

- Downhole and Well drilling equipments
- Avionics
- Airborne equipments
- Geothermal equipment

The crystals are supplied in trays (208 crystals per tray).

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

7" with 1'000 crystals

7" with 3'000 crystals

ELECTRICAL CHARACTERISTICS AT 25°C:

Frequency Range		FL	8–40	MHz
Load capacitance	1)	CL	20.0	pF
Frequency tolerance at 25°C	2)	ΔF/F	+/-50	ppm
Frequency versus temperature TD: -55 to + 175°C TG: -55 to + 200°C	3)	ΔF/F ₀	+/-150 +/-250	ppm
Drive level typ/max		Р	100 / 200	μW
Insulation resistance min.		R _i	500	МΩ
Aging first year max.		ΔF/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
16 to < 20	80 / 200	2/4	1.5
20 to < 24	60 / 120	3 / 5	2
24 to ≤ 40	50 / 100	4/6	3

STANDARD FREQUENCIES:

		Frequency MHz		
16.0000	16.3840	18.432	20.0000	24.0000
Other frequencies from 16 MHz up to 40 MHz on request				

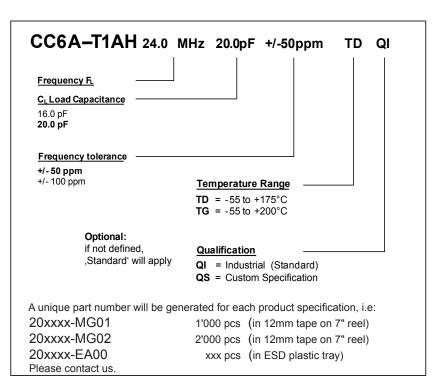
ENVIRONMENTAL CHARACTERISTICS:

	Conditions
Storage temp. range	−55 to +125°C
TD Operating temperature range	–55 to +175°C
TG Operating temperature range	−55 to +200°C
Shock resistance	10000 g, 0.3 ms, ½ sine
Vibration resistance	40 g / 10–2000 Hz

TERMINATIONS AND PROCESSING:

Туре	Termination	Processing
CC6A-T1AH	For SMD mounting Au plated pads	Reflow soldering +260°C / 20 s max.
Only avaible with TD temperature range CC6A-T3AH	For SMD mounting Sn/Ag/Cu plated	Reflow soldering +260°C / 20 s max.

PRODUCT DESCRIPTION AND ORDERING INFORMATION:



All specifications subject to change without notice.



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