

CC6A-T1A AT Crystal 16 MHz - 70 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

SMT ceramic package height 0.9mm 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 (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	16 – 70	MHz
Load capacitance	1)	CL	20.0	pF
Frequency tolerance at 25°C	2)	ΔF/F	+/-50	ppm
Frequency versus temperature TB: -40 to +85°C TC: -55 to +125°C	3)	ΔF/F ₀	+/-50 +/-100	ppm
Drive level typ/max		Р	100 / 250	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	60 / 120	2/4	1.5
20 to < 24	40 / 85	3/5	2
24 to < 40	30 / 50	4/6	2.5
40 to < 70	20 / 40	5/8	3

STANDARD FREQUENCIES:

Frequency MHz						
16.0000	20.0000	40.0000				
	Other frequencies from 16 MHz up to 70 MHz on request					

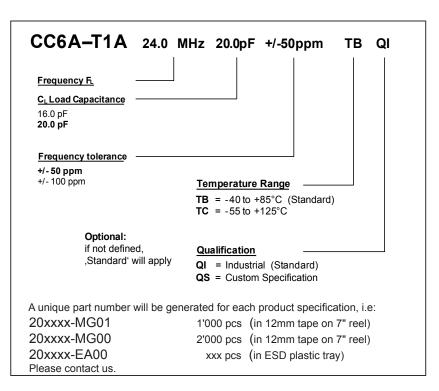
ENVIRONMENTAL CHARACTERISTICS:

	Conditions
Storage temp. range	−55 to +125°C
TB Operating temperature range	−40 to +85°C
TC Extended oper. temp. range	−55 to +125°C
Shock resistance	5000 g, 0.3 ms, ½ sine
Vibration resistance	20 g / 10–2000 Hz

TERMINATIONS AND PROCESSING:

Туре	Termination	Processing
CC6A-T1A	For SMD mounting Au plated pads	Reflow soldering +260°C / 20 s max.
CC6A-T3A	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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