

C7A-T1 AT Crystal 24 MHz - 50 MHz



DIMENSIONS Package: Recommended Solder Pad: 3,2 max.0,90 All dimensions in mm typical

Ultra miniature suitable for implantable medical application SMT ceramic package package height 0.9 mm add 0.75mm on request Fundamental mode up to 50MHz 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:

- Implantable medical devices (Pacemakers, Defibrillators, Pumps)
- Optical nertwork
- Satellite communications
- Airborne equipments
- Telemetry

The crystals are supplied in trays (288 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	24 – 50	MHz
Load capacitance	1)	CL	3.0 / 9.0 / 16.0	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; e.g. CL: 20 pF
- 2) Tighter and wider frequency tolerances on request; e.g. +/-20 ppm
- 3) Tighter thermal stability on request; e.g. +/-10 ppm from 0°C to +55°C

Frequency [MHz]	Rs[Ω]	C1 [fF]	Co [pF]
	typ/max	typ/max	typ
24 to < 50	60 / 100	1/3	0.7

STANDARD FREQUENCIES:

Frequency MHz					
24.0000	25.0000	26.0000	26.5000	27.0000	40.0000
Other frequencies from 24 MHz up to 50 MHz on request					

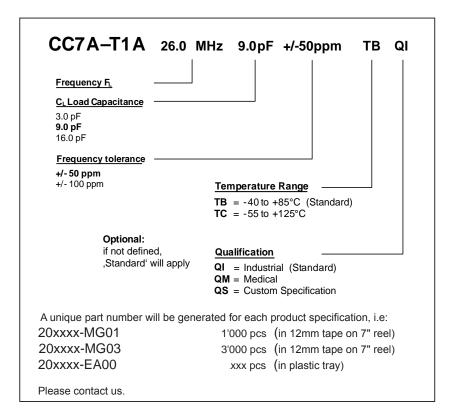
ENVIRONMENTAL CHARACTERISTICS:

	Conditions
Storage temp. range	−55 to +125°C
TB Operating temperature range	–40 to +85°C
TC Extended operating 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
CC7A-T1A	For SMD mounting Au plated pads	Reflow soldering +260°C / 20 s max.
CC7A-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.









