

CC1F-T1A

Inverted Mesa AT Crystal 30 MHz - 250 MHz



Package:

Recommended Solder Pad:

2,3 4,0 2,3

Left Solder Pad:

All dimensions in mm typical

SMT ceramic package height 1.75 mm Fundamental mode up to 250MHz Inverted Mesa Technology 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:

- TCXO, VCTCXO, VCXO
- Optical nerwork
- Satellite communications
- Airborne equipments

The crystals are supplied in trays (100 crystals per tray).

For pick-and-place equipment, the parts are available in 16mm tapes:

7" with 1'000 crystals

10" with 2'000 crystals

ELECTRICAL CHARACTERISTICS AT 25°C:

Frequency Range	FL	30–250	MHz
Load capacitance 1)	C _L	10.0 / ∞	pF
Frequency tolerance at 25°C 2)	ΔF/F	+/-50	ppm
Frequency versus temperature ³⁾ TB: -40 to +85°C TC: -55 to +125°C	ΔF/F ₀	+/-30 +/-100	ppm
Drive level max.	Р	100	μW
Insulation resistance min.	R _i	500	МΩ
Aging first year max.	ΔF/F	+/-3	ppm

Frequency [MHz]	FL	50.000	155.520	MHz
Series resistance typ./max.	R _S	15 / 50	15 / 35	Ω
Motional capacitance typ.	C ₁	5.6	5.6	fF
Static capacitance typ.	C ₀	2.0	2.9	pF

- 1) Other load capacitances on request.
- 2) Tighter and wider frequency tolerances on request.
- 3) Values for other frequencies consult factory.

STANDARD FREQUENCIES:

Frequency MHz					
50.0000	77.7600	100.0000	106.2500	125.000	155.5200
166.6286	200.0000	207.3600	212.5000	250.0000	
Other frequencies from 30 MHz up to 250 MHz on request					

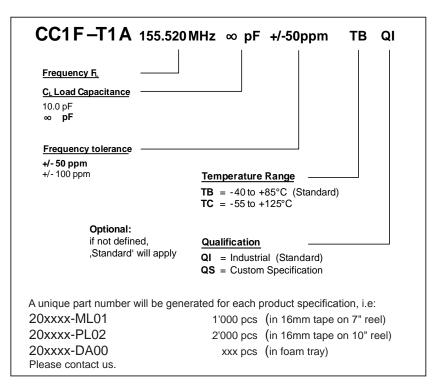
ENVIRONMENTAL CHARACTERISTICS:

	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
CC1F-T1A	For SMD mounting Au plated pads	Reflow soldering +260°C / 20 s max.

PRODUCT DESCRIPTION AND ORDERING INFORMATION:



All specifications subject to change without notice.









