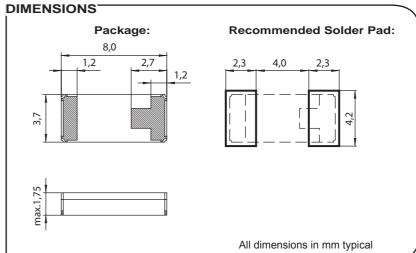


CC1F-T1A

Inverted Mesa AT Crystal 30 MHz - 250 MHz





Small SMT ceramic package Package height 1.75 mm Fundamental mode frequencies SMD-package in Tape and Reel Ind. and Ext. temperature ranges High stability Low aging High shock and vibration resistance

DESCRIPTION:

This SMD ceramic package has been specially designed for small industrial, telecom and VCXO applications. All frequencies are generated in fundamental mode.

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

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

7" (178 mm) reel with 1'000 crystals 13" (330 mm) reel with 4'000 crystals

ELECTRICAL CHARACTERISTICS AT 25°C:

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

Frequency Example 3)	FL	50.000	155.520	MHz
Series resistance typ./max.	Rs	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 between 30 MHz and 250 MHz on request						

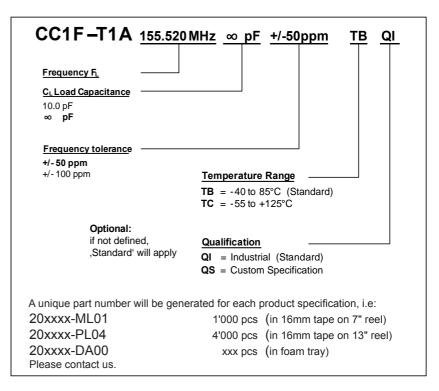
ENVIRONMENTAL CHARACTERISTICS:

		Conditions	Max. Dev.
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	ΔF/F	5000 g, 0.3 ms, ½ sine	+/-5 ppm
Vibration resistance	ΔF/F	20 g / 10–2000 Hz	+/-5 ppm

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.



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