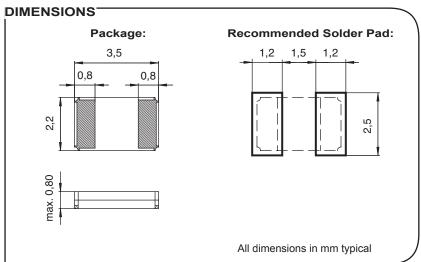


CC6F-T1A

Inverted Mesa AT Crystal 70 MHz - 250 MHz





Miniature SMT ceramic package height 0.8 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
- Animal tracking

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		F _L	70–250	MHz
Load capacitance	1)	CL	10.0 / ∞	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	+/-30 +/-100	ppm
Drive level max.		Р	100	μW
Insulation resistance min.		R _i	500	ΜΩ
Aging first year max.		ΔF/F	+/-3	ppm

Frequency [MHz]	F _L	70.000	155.520	MHz
Series resistance typ./max.	R_s	50 / 100	15 / 35	Ω
Motional capacitance typ.	C ₁	2.7	5.6	fF
Static capacitance typ.	C _o	2.4	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						
77.7600	100.0000	106.2500	125.0000	155.5200	166.6286		
200.0000	207.3600	212.5000	250.0000				
	Other frequencies from 30 MHz up to 250 MHz on request						

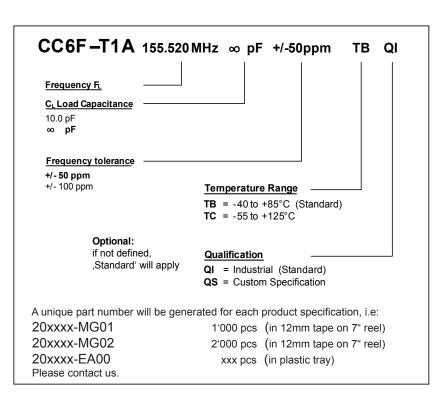
ENVIRONMENTAL CHARACTERISTICS:

	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
CC6F-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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