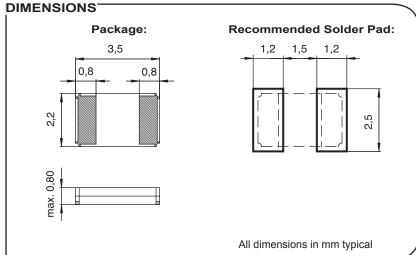


CC6F-T1AF Filter applications Inverted Mesa AT Crystal 70 MHz – 250 MHz





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:

- Filters

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	C _L	10.0 / ∞	pF
Frequency tolerance at +25°C ²	ΔF/F	± 20	ppm
Frequency versus temperature TB: -40 to +85°C TC: -55 to +125°C	ΔF/F ₀	± 20 ± 50	ppm
Drive level typ/max	Р	100/250	μW
Insulation resistance min.	R,	500	ΜΩ
Aging first year max.	ΔF/F	+/-3	ppm
Spurious attenuation		<-15	dB
Frequency spurius range		≤1	MHz

Frequency [MHz]	F _L	124	155.520	MHz
Series resistance typ./max.	R _s	35 / 45	35 / 45	Ω
Motional capacitance typ.	C ₁	3	3	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.
- 4) Other parameters on request

STANDARD FREQUENCIES:

Frequency MHz	
124.782	
Other frequencies from 70 MHz up to 250 MHz on request	

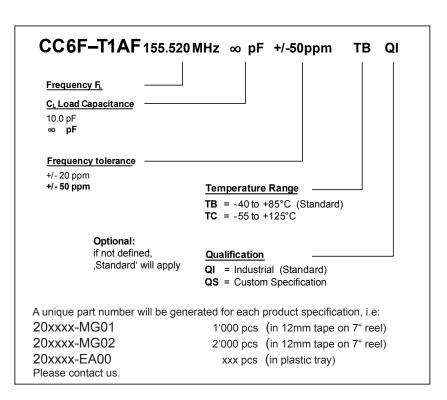
ENVIRONMENTAL CHARACTERISTICS:

	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-T1AF	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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