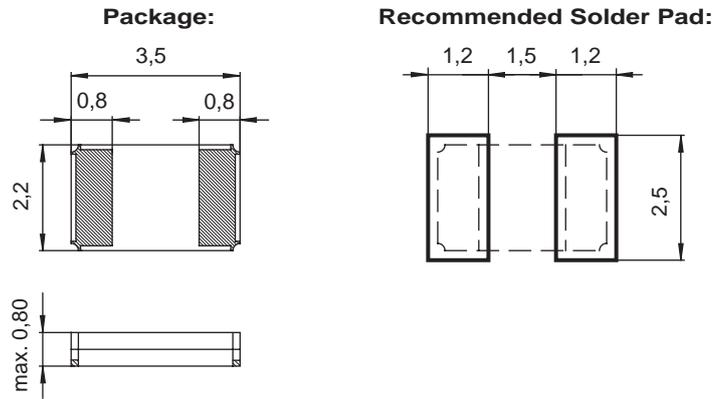




DIMENSIONS



All dimensions in mm typical

Miniature SMT ceramic package height 0.8 mm
Fundamental mode up to 200MHz
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 photolithographic 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	70–200	MHz
Load capacitance ¹⁾	C_L	10.0 / ∞	pF
Frequency tolerance at +25°C ²⁾	$\Delta F/F$	± 20	ppm
Frequency versus temperature ³⁾ TB: -40 to +85°C TC: -55 to +125°C	$\Delta F/F_0$	± 20 ± 50	ppm
Drive level typ./max	P	100/250	μW
Insulation resistance min.	R_i	500	M Ω
Aging first year max.	$\Delta F/F$	+/-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_0	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	
70	124.782
Other frequencies from 70 MHz up to 200 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:**

Type	Termination	Processing
CC6F-T1AF	For SMD mounting Au plated pads	Reflow soldering +260°C / 20 s max.

**PRODUCT DESCRIPTION AND
ORDERING INFORMATION:**

CC6F-T1AF 155.520 MHz ∞ pF +/-50ppm TB QI

Frequency F_0 _____

C_L Load Capacitance _____

10.0 pF
∞ pF

Frequency tolerance _____

+/- 20 ppm
+/- 50 ppm

Temperature Range _____

TB = -40 to +85°C (Standard)
TC = -55 to +125°C

Optional:
if not defined,
'Standard' will apply

Qualification _____

QI = Industrial (Standard)
QS = Custom Specification

A unique part number will be generated for each product specification, i.e:

20xxxx-MG01	1'000 pcs (in 12mm tape on 7" reel)
20xxxx-MG02	2'000 pcs (in 12mm tape on 7" reel)
20xxxx-EA00	xxx pcs (in plastic tray)

Please contact us.

All specifications subject to change without notice.



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