

► Features

SMD UM-1 Crystal

Fundamental (8 to 70Mhz)

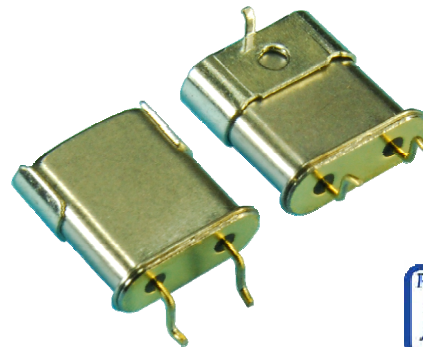
3rd Overtone (50 to 210Mhz)

5th Overtone (120 to 210Mhz)

AT-Cut Crystal

-20to70 °C, -40to85 °C OPT Range.

RoHS Compliant (pb-Free)



Dimensions(mm)

8.0 x 7.8 x 2.2max

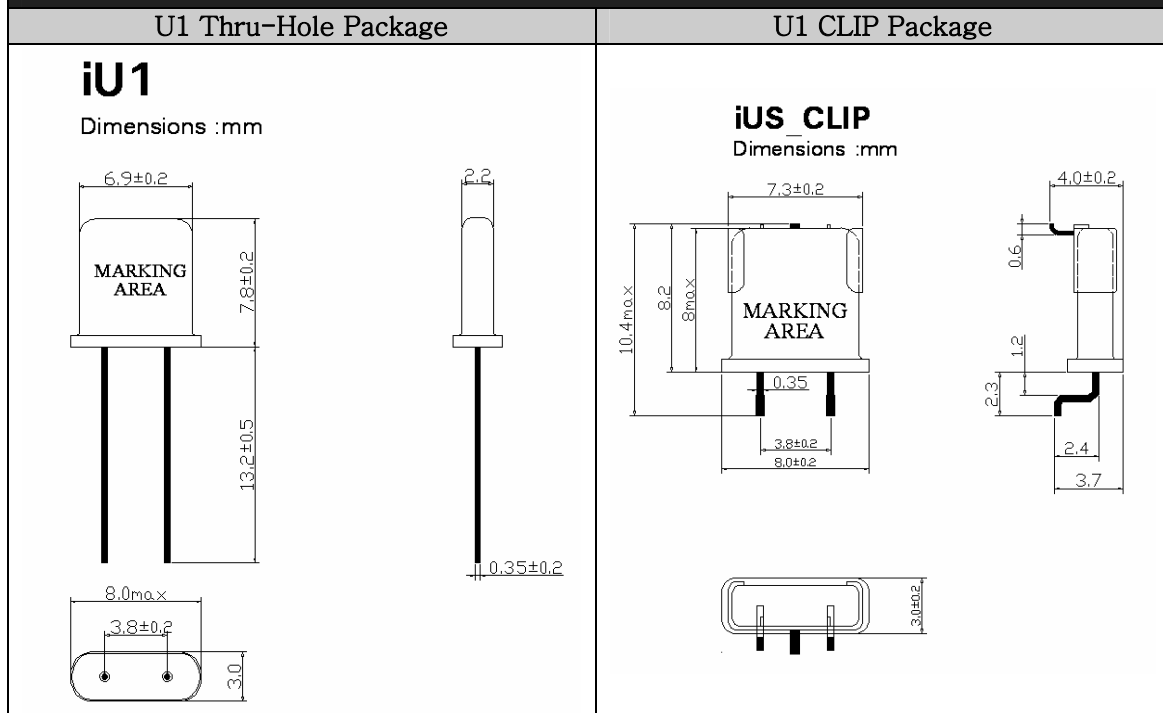
Standard Specifications

Parameter	Maximum Value	Condition
Frequency	8.000 ~ 210 Mhz	Depending on Mode
Mode	Fundamental 3rd Overtone 5 th Overtone	8 to 70Mhz 50 to 210Mhz 120 to 210Mhz
Stability Options over temperature	B5=±25ppM A0=±10ppM	-40 to 85°C -20 to 70°C
Calibration Tolerance	±10 ppm	@25°C
Shunt Capacitance	5pF max	
Load Capacitance	9pF ~ 20pF or Series	
Drive Level	100uW	
Aging per year	< 2ppM	
ESR	50 Ohm max	

Absolute Maximum Ratings *(For user guidelines only)*

Parameter	Maximum Value	Units	Condition
Operating Temperature	-40 to 85	°C	
Storage Temperature	-50 to 120	°C	Max

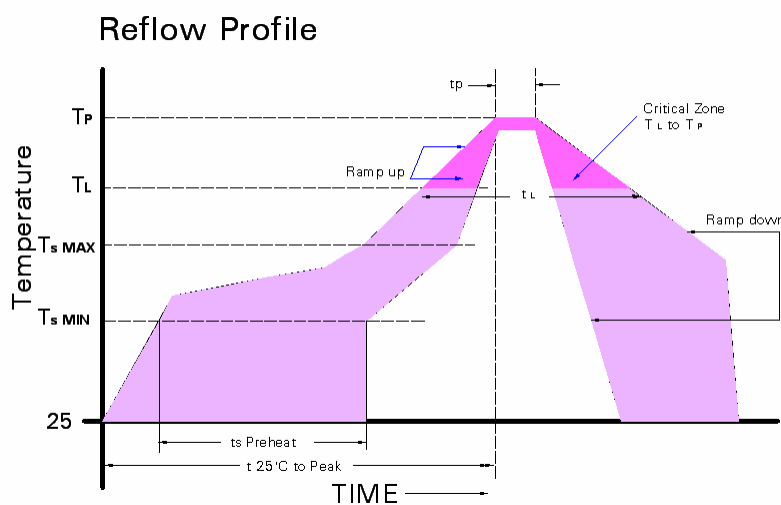
Mechanical Dimensions



Marking

13.000Mhz	-Frequency
● IMT wwww	-week/year

Recommended Reflow Profile – For Clip package Type



Note: Temperatures refer to body of device.

Oscillators must be on the top side of the PCB during the reflow process.

Ts max to TL (Ramp-up rate)	3°C/second max
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Preheat -Temperature Min(Ts min)	150°C
-Temperature Typical(Ts TYP)	175°C
-Temperature Max(Ts Max)	200°C
-Time(ts)	60-180 Seconds
Ramp-up Rate(TL to TP)	3°C/Second max
Time Maintained Above-Temperature(TL)	217°C
-Time(TL)	60-150 Seconds
Peak Temperature(Tp)	250°C Max for 10 seconds Max
Target Peak Temperature(Tp Target)	240°C
Time within 5°C of actual peak(tp)	20-40 seconds
Ramp-down Rate	6°C/second max
Time 25°C to peak Temperature	8 minutes max

Part Numbering Guide & Code ...iCXUS3-EB5-F-80M000-T

iCXUS3(Crystal)

Package	Mode	Operating Temperature	Stability	CL	Frequency	Packaging Option
iCXUS	3	E	B5	F	80M000	T
U1:Thur-hole US: Clip	F:fund 3:3 rd 5:5 th	B: 0...70°C C:-20...70°C E:-40...85°C	A0: ±10ppM B5: ±25ppM	X- series A-20pF B-18pF C-16pF D-12.5pF F-12pF G-10pF O-other	80Mhz	T: Tape & Reel B: Bulk
Above example, Crystal, UM1 package, 3 rd Overtone mode, -40to 85°C Temperature range, Temp Stability ±25ppM, 12pF Load capacitance, at 80.000Mhz.						