Electrical Specifications

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F_{NOM}	16		80	MHz	

Frequency Stabilities

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency Tolerance	F/F	See Ordering Information			ppm	@ +25°C, see ordering information
Frequency Stability	ΔF/F	See Ordering Information			ppm	Over the operating range
Aging	F/F	-3		+3	ppm	Per year

Additional Parameters

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Load Capacitance	C_L	6		32	pF	See Note 1
Shunt Capacitance	C_0			3	pF	
Drive Level	D_L			100	μW	
Insulation Resistance	I_R	500			MΩ	

Equivalent Series Resistance (ESR)

Frequency Range	ESR (MAX)
Fundamental (AT-cut)	
16 to 24 MHz	100 Ω
24 to 32 MHz	80 Ω
32 to 40 MHz	50 Ω
40 to 80 MHz	40 Ω

Temperature

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Operating Temperature	OTR	See Ordering Information			°C	
Storage Temperature	STR	-55		+125	°C	

Lead Free Solder Profile

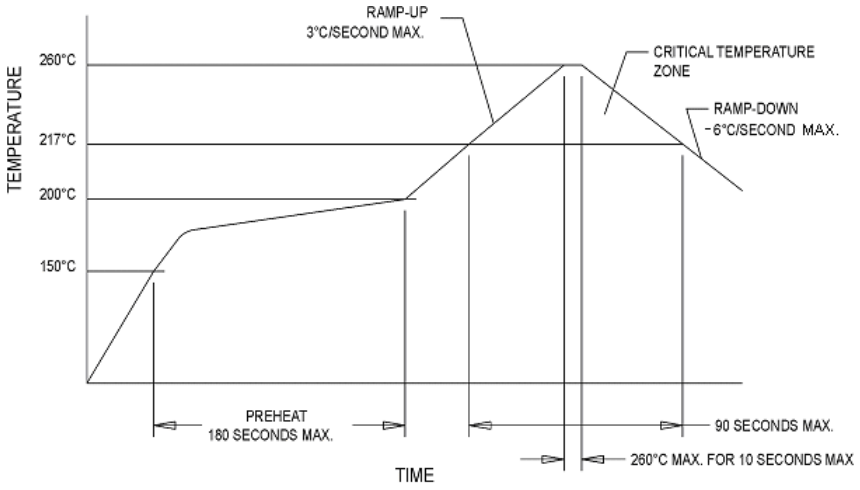
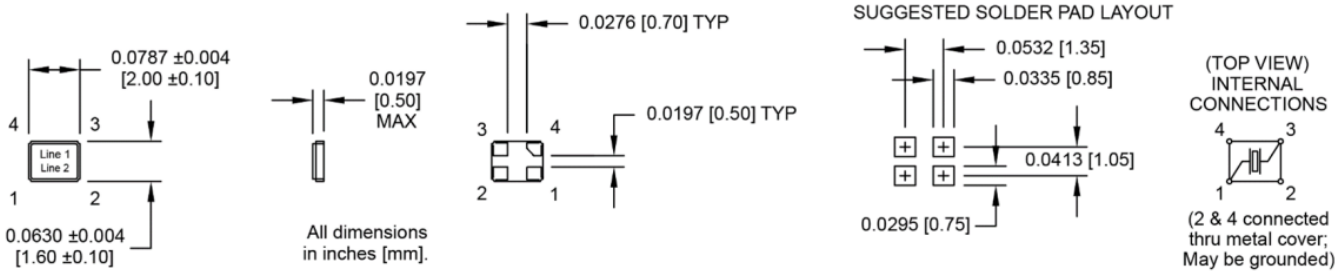


Figure 1

Package Dimensions



Ordering Information

M1620 2 J M XX 00.0000MHz

Product Series

Frequency (Customer specified)

Temperature Range	
6	-20°C to +70°C
2	-40°C to +85°C
8	-40°C to +105°C
9	-40°C to +125°C

Load Capacitance	
XX	Customer specified 6 pF to 32 pF
Blank	18 pF (standard)

Tolerance	
D	± 10 ppm
G	± 20 ppm
J	± 30 ppm

Stability	
D	± 10 ppm
E	± 15 ppm
G	± 20 ppm
J	± 30 ppm
M	± 50 ppm

Revision History

Date	Rev	Author	Details of Revision
06-25-26	B	HF	Added Temperature Ranges T=8, and T=9
04-22-26	A	AR	Initial Version