

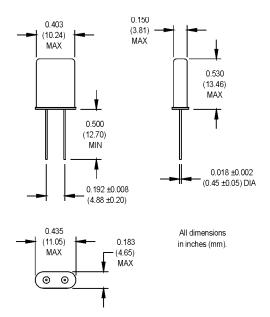




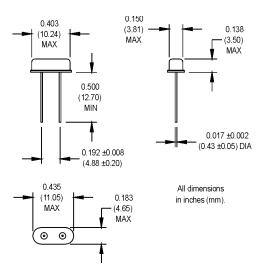


MP-1 (HC-49/U) 00.0000 MHz (customer specified frequency)

 $\textbf{MP-1-R} \ \, \big(HC\text{-}49\text{/}U \big) \ \, \textbf{00.0000} \ \, \textbf{MHz} \ \, \text{(RoHS Compliant and customer specified frequency)}$



Equivalent Series Resistance (ESR), Max. Fundamental (AT-cut)	ATS-49		
3.579 to 3.999 MHz	200 Ω		
4.000 to 4.999 MHz	150 Ω		
5.000 to 5.999 MHz	120 Ω		
6.000 to 9.999 MHz	100 Ω		
10.000 to 13.999 MHz	80 Ω		
14.000 to 40.000 MHz	50 Ω		
Fundamental (BT-cut) 24.000 to 50.000 MHz Third Overtones (AT-cut)	100 Ω		
25.000 to 39.999 MHz	100 Ω		
40.000 to 72.000 MHz	80 Ω		



*ATS-49 00.0000 MHz (customer specified)

*ATS-49-R $\,$ 00.0000 $\,$ MHz (RoHS Compliant and customer specified frequency)

Equivalent Series Resistance (ESR), Max. Fundamental (AT-cut)	MP-1
1.8432 to 1.999 MHz	700 Ω
2.000 to 2.399 MHz	600 Ω
2.400 to 3.299 MHz	400 Ω
3.300 to 3.569 MHz	140 Ω
3.570 to 3.999 MHz	100 Ω
4.000 to 5.999 MHz	75 Ω
6.000 to 7.999 MHz	50 Ω
8.000 to 10.999 MHz	40 Ω
11.000 to 14.999 MHz	30 Ω
15.000 to 19.999 MHz	25 Ω
20.000 to 34.000 MHz	25 Ω
Third Overtones (AT-cut)	
20.000 to 49.999 MHz	40 Ω
50.000 to 75.000 MHz	50 Ω
Fifth Overtones (AT-cut)	
50.000 to 125.000 MHz	90 Ω
Seventh Overtones (AT-cut)	
125.000 to 200.000 MHz	150 Ω

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
Electrical Specifications	Frequency Range	F	1.8432		200	MHz	MP-1
			3.579545		72	MHz	ATS-49
	Frequency Tolerance	F/F			±30	ppm	
	Frequency Stability	∆ F/F			±50	ppm	See Note 1
	Operating Temperature	TA	-10		+70	°C	
	Storage Temperature	Ts	-55		+125		°C
	Aging						
	Per Year			±5	±5	ppm	
	Load Capacitance	CL		18		pF	See Note 2
	Shunt Capacitance	Co			7	pF	
	ESR		See	ESR Tab	les		
	Drive Level	DL			1	mW	MP-1
					500	μ W	ATS-49
	Insulation Resistance	I R	500			MΩ	

Note 1: BT cut fundamentals from 24.000 to 40.000 MHz have a stability of ± 100 ppm (ATS-49).

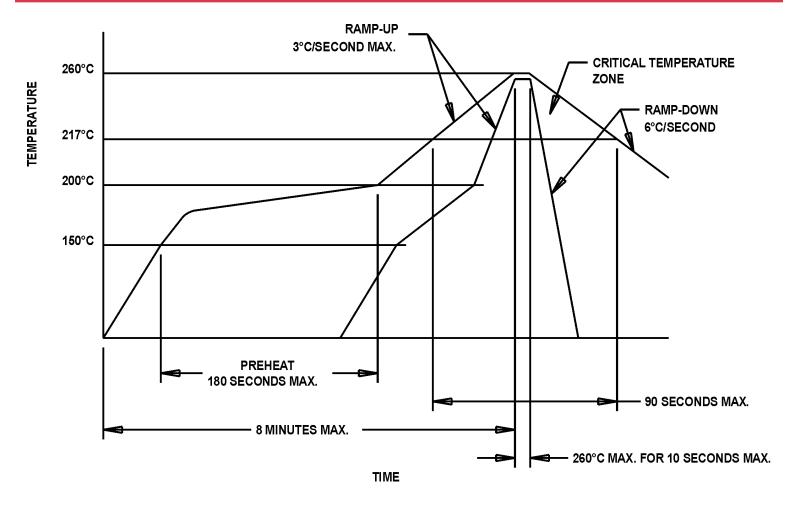
Note 2: Series resonant designated "SR" prefix (i.e., SRATS-49 or SRMP-1)

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MtronPTI Lead Free Solder Profile



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