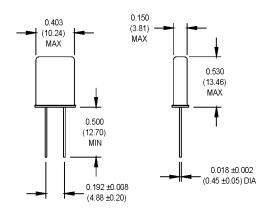
ATS-49 and MP-1 Crystals

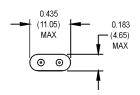






MP-1 (HC-49/U) 00.0000 MHz (customer specified)





NOTES:

All dimensions

in inches (mm).

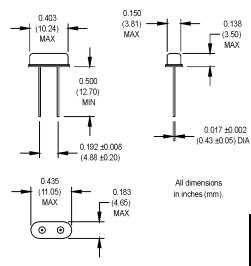
Series resonant designated by "SR" prefix (i.e., SRATS-49 or SRMP-1).

ATS-49

Because this product is based on AT-strip technology, not all frequencies in the range stated are available. Contact the factory for availability of specific frequencies.

BT cut fundamentals from 24.000 to 40.000 MHz have a stability of ± 100 ppm.

*ATS-49 00.0000 MHz (customer specified)



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	100 Ω
Third Overtones (AT-cut)	
25.000 to 39.999 MHz	100 Ω
40.000 to 72.000 MHz	80 Ω

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
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	
i£ic	Operating Temperature	TA	-10		+70	°C	
bec	Storage Temperature	Ts				°C	
Electrical S	Aging						
	1st Year						
	Thereafter (per year)						
"	Load Capacitance	CL		18		pF	
	Shunt Capacitance	Co			7	pF	
	ESR		See ESR Tables				
	Drive Level	DL			1	mW	MP-1
					500	μ W	ATS-49
	Insulation Resistance	l _R	500			ΜΩ	

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.