## ATS-49 and MP-1 Crystals



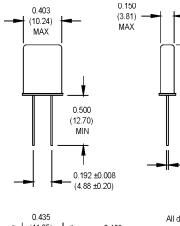


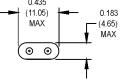


## MP-1 (HC-49/U) 00.0000 MHz (customer specified frequency) MP-1-R (HC-49/U) 00.0000 MHz (RoHS Compliant and customer specified frequency)

0.530 (13.46)

MAX





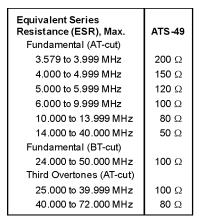


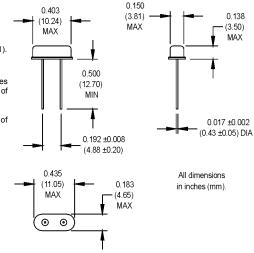


Series resonant designated by "SR" prefix (i.e., SRATS-49 or SRMP-1).

ATS-49 Because this product is based on AT-strip technology, not all frequencies 0.018 ±0.002 in the range stated are available. Contact the factory for availability of (0.45 ±0.05) DIA 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)

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

	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	
	Operating Temperature	TA	-10		+70	°C	
	Storage Temperature	Ts				°C	
	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 <b>W</b>	ATS-49
	Insulation Resistance	IR	500			MΩ	

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

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.