

ATS-49

200 Ω

150 Ω **120** Ω

100 Ω

 Ω 08

50 Ω

100 Ω

100 Ω

80 Ω

Equivalent Series Resistance (ESR), Max.

Fundamental (AT-cut) 3.579 to 3.999 MHz

4.000 to 4.999 MHz

5.000 to 5.999 MHz 6.000 to 9.999 MHz

10.000 to 13.999 MHz

14.000 to 40.000 MHz

24.000 to 50.000 MHz

25.000 to 39.999 MHz

40.000 to 72.000 MHz

Third Overtones (AT-cut)

Fundamental (BT-cut)

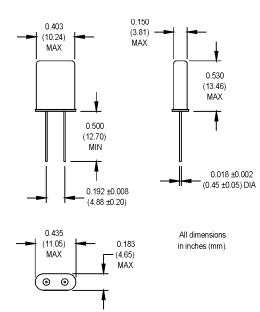
ATS-49 and MP-1 Crystals





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)

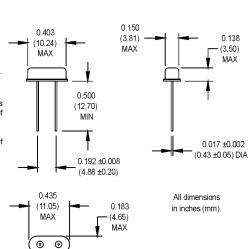


NOTES:

Series resonant designated by "SR" prefix (i.e., **SR**ATS-49 or **SR**MP-1).

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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



*ATS-49 00.0000 MHz (customer specified)

 ${}^{\star}ATS\text{-}49\text{-}R$ 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	l
2.000 to 2.399 MHz	600 Ω	l
2.400 to 3.299 MHz	400 Ω	l
3.300 to 3.569 MHz	140 Ω	l
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	
	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	рF	
	ESR		Se	e ESR Ta	bles		
	Drive Level	DL			1	mW	MP-1
					500	μ W	ATS-49
	Insulation Resistance	lr	500			MΩ	

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.