

ATS-49 Crystals

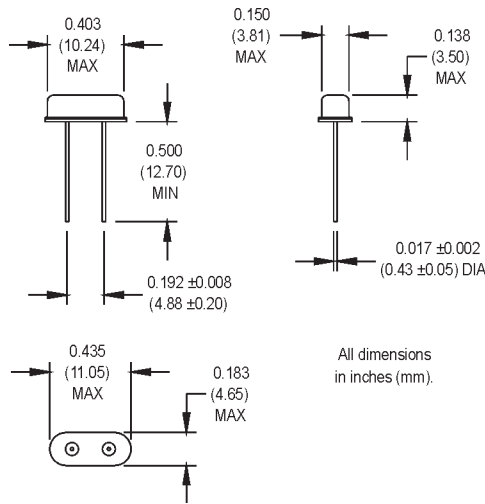


*ATS-49 00.0000 MHz (customer specified)

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

M1004Sxxx - Contact factory for datasheet.

Equivalent Series Resistance (ESR), Max.	ATS-49
Fundamental (AT-cut)	
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



MtronPTI ATS-49 Options	
Order by part number listed followed by the desired frequency.	
Part No.	Description
397-030	Fundamental, 20pF load, ±30 ppm tolerance, ±50 ppm stability, -10°C to +70°C operating temperature
397-040	Fundamental, series resonant, -10°C to +70°C operating temperature
397-310	Fundamental, 18pF load, -40°C to +85°C operating temperature
482-010	Fundamental, base insulator
482-040	Fundamental, series resonant, base insulator
482-740	Fundamental, series resonant, -40°C to +85°C operating temperature
483-240	3 rd overtone, series resonant, ±30 ppm tolerance, ±50 ppm stability, -40°C to +85°C operating temperature
493-040	3 rd overtone, series resonant
Balance of specifications same as shown in "Electrical Specifications"	
Contact the factory for options not listed above.	

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes	
Electrical Specifications	Frequency Range	F	3.579545		72	MHz		
	Frequency Tolerance	F/F	-30		+30	ppm		
	Frequency Stability	ΔF/F	-50		+50	ppm	See Note 1	
	Operating Temperature	T _A	-10		+70	°C		
	Storage Temperature	T _S	-55		+125	°C		
	Aging Per Year			±5	±5			
	Load Capacitance	C _L		18		pF	See Note 2	
	Shunt Capacitance	C _O			7	pF		
	ESR			See ESR Table				
	Drive Level	D _L	25	100	500	μW		
Insulation Resistance	I _R	500			MOhms			
Environmental	Mechanical Shock	MIL-STD-202, Method 213, C (100 g's)						
	Vibration	MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)						
	Thermal Cycle	MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min dwell, 10 cycles)						
	Hermeticity	MIL-STD-202, Method 112 (must meet 1 x 10 ⁻⁸)						
	Solderability	Per EIAJ-STD-002						
Max Wave Soldering Conditions	+260°C for 10 secs. Max.							

Note 1: BT cut fundamentals from 24.000 to 40.000 MHz have a stability of ±100 ppm

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

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