

ATS-49 Crystals



Electrical Specifications

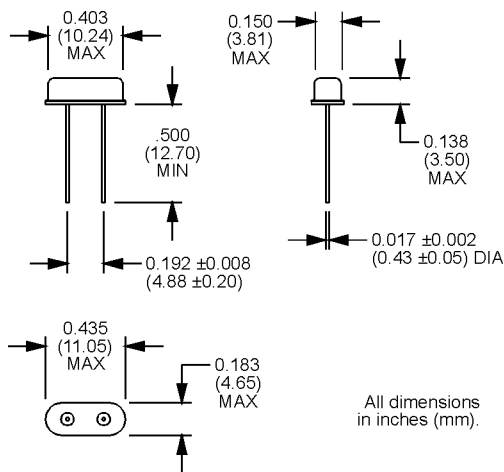
PARAMETERS	VALUE
Frequency Range ¹	3.579545 to 72.000 MHz
Tolerance @ +25°C	±30 ppm
Stability ²	±50 ppm
Aging	±5 ppm/yr. Max.
Shunt Capacitance	7 pF Max.
Load Capacitance	18 pF Std.
Standard Operating Conditions	-10°C to +70°C
Equivalent Series Resistance (ESR), Max.	
Fundamental (AT-cut)	
3.579 to 3.999 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
Drive Level	500 μW Max.
Holder	HC-49U/S

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

¹ 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.

² BT cut fundamentals from 24.000 to 40.000 MHz have a stability of ±100 ppm. Contact the factory for low profile and 3rd lead configuration. See page 136 for suggested soldering conditions.

*ATS-49 00.0000 MHz (customer specified)



M-tron ATS-49 Options

Order by part number listed followed by the desired frequency.

Part No.	Description
397-030	Fundamental, 20 pF 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, 18 pF 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	3rd overtone, series resonant, ±30 ppm tolerance, ±50 ppm stability, -40°C to +85°C operating temperature
493-040	3rd overtone, series resonant

Balance of specifications same as shown in "Electrical Specifications".
Contact the factory for options not listed above.

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