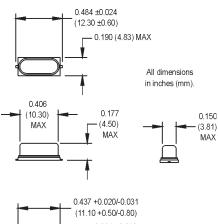
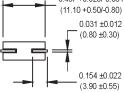
ATSM-49 and SX2050 Surface Mount Crystals



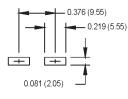


*ATSM-49 00.0000 MHz (customer specified)





SUGGESTED SOLDER PAD LAYOUT

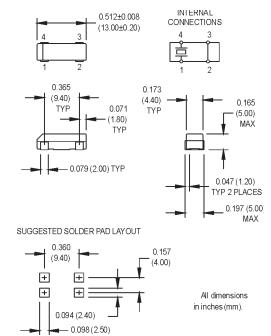


Equivalent Series Resistance (ESR), Max. Fundamental (AT-cut)	ATSM-49		
3.579 to 3.999 MHz	200 Ω		
4.000 to 4.999 MHz	150 Ω		
5.000 to 5.999 MHz	120 Ω		
6.000 to 9.999 MHz	100 Ω		
10.000 to 13.999 MHz	80 Ω		
14.000 to 40.000 MHz	50 Ω		
Fundamental (BT-cut)			
24.000 to 50.000 MHz	100 Ω		
Third Overtones (AT-cut)			
25.000 to 39.999 MHz	100 Ω		
40.000 to 72.000 MHz	80 Ω		



Equivalent Series Resistance (ESR), Max.	Sx2050
Fundamental (AT-cut)	
3.579 to 3.999 MHz	200 Ω
4.000 to 4.499 MHz	150 Ω
4.500 to 4.999 MHz	120 Ω
5.000 to 6.999 MHz	100 Ω
7.000 to 8.999 MHz	80 Ω
9.000 to 9.999 MHz	6 0 Ω
10.000 to 12.999 MHz	50 Ω
13.000 to 18.999 MHz	35 Ω
19.999 to 30.000 MHz	25 Ω
Fundamental (BT-cut)	
30.000 to 40.000 MHz	30 Ω
Third Overtones (AT-cut)	
36.000 to 60.000 MHz	80 Ω

*SX2050 00.0000 MHz (customer specified)



NOTES:

Series resonant designated by "SR" prefix (i.e., SRATSM-49 or SRSX2050).

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.

ATSM-49

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
Specifications	Frequency Range	F	3.579545		72	MHz	ATSM-49
			3.579545		60	MHz	SX2050
	Frequency Tolerance	F/F			±30	ppm	ATSM-49
					±50	ppm	SX2050
	Frequency Stability	∆F/F			±50	ppm	ATSM-49
					±100	ppm	SX2050
cific	Operating Temperature	ΤΑ	-10		+70	°C	ATSM-49
bed			-20		+70	°C	SX2050
	Storage Temperature	Ts				°C	
Electrical	Aging						
	1st Year						
	Thereafter (per year)						
	Load Capacitance	CL		18		pF	
	Shunt Capacitance	Co			7	pF	ATSM-49
					5	pF	SX2050
	ESR		Se	e ESR Tal	bles		
	Drive Level	DL			500	μ W	ATSM-49
					100	μW	SX2050
	Insulation Resistance	IR	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.

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