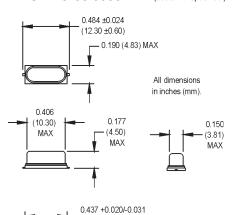


ATSM-49 and SX2050 Surface Mount Crystals



*ATSM-49 00.0000 MHz (customer specified)



(11.10 +0.50/-0.80)

0.031 ±0.012

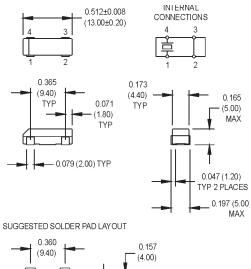
(0.80 ±0.30)

0.154 ±0.022 (3.90 ±0.55)



Equivalent Series Resistance (ESR), Max. Fundamental (AT-cut)	Sx2050		
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	60 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)



0.360 (9.40) 0.157 (4.00) 0.157 (4.00) 0.094 (2.40) All dimensions in inches (mm).

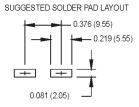
NOTES:

Series resonant designated by "SR" prefix (i.e., ${\bf SR}$ ATSM-49 or ${\bf SR}$ SX2050).

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.



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	

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
Specifications	Frequency Range	F	3.579545	1,7 %.	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
	Operating Temperature	TA	-10		+70	°C	ATSM-49
) be			-20		+70	°C	SX2050
Electrical S	Storage Temperature	Ts				°C	
	Aging						
	1st Year						
	Thereafter (per year)						
	Load Capacitance	CL		18		pF	
	Shunt Capacitance	Co			7	pF	ATSM-49
					5	pF	SX2050
	ESR		See ESR Tables				
	Drive Level	DL			500	μ W	ATSM-49
					100	μ W	SX2050
	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.