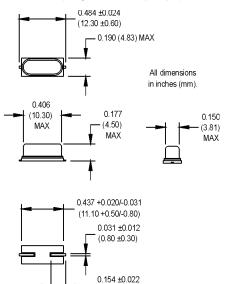
ATSM-49 and SX2050 Surface Mount Crystals



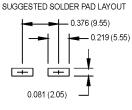


*ATSM-49-R 00.0000 MHz (customer specified) (-R signifies RoHS compliant part)



(3.90 ±0.55)



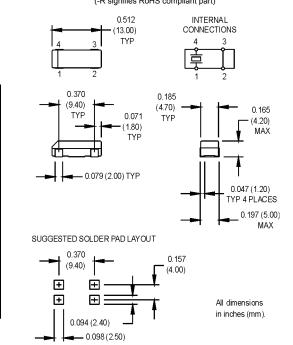


Equivalent Series Resistance (ESR), Max. Fundamental (AT-cut)	ATSM-49	
3.579 to 3.999 MHz	200 Ω	
4.000 to 4.999 MHz	150 Ω	
5.000 to 5.999 MHz	120 Ω	
6.000 to 9.999 MHz	100 Ω	
10.000 to 13.999 MHz	80 Ω	
14.000 to 40.000 MHz	50 Ω	
Fundamental (BT-cut)		
24.000 to 50.000 MHz	100 Ω	
Third Overtones (AT-cut)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



Equivalent Series Resistance (ESR), Max. 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	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-R 00.0000 MHz (customer specified) (-R signifies RoHS compliant part)



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.

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Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	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
ğ			-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		See ESR Tables				
	Drive Level	DL			500	μ W	ATSM-49
					100	μ W	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.