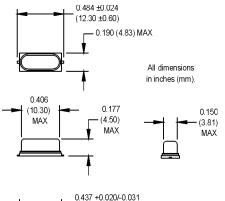


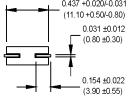
ATSM-49 and SX2050 Surface Mount Crystals



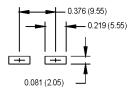
*ATSM-49-R 00.0000 MHz (customer specified)

(-R signifies RoHS compliant part)





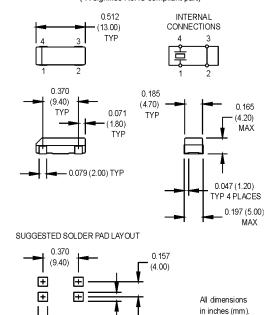
SUGGESTED SOLDER PAD LAYOUT



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



*SX2050-R 00.0000 MHz (customer specified) (-R signifies RoHS compliant part)



0.094 (2.40)

0.098 (2.50)

ns	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 (See Note 1)
atio					±100	ppm	SX2050 (See Note 1)
ific	Operating Temperature	TA	-10		+70	°C	ATSM-49
pec			-20		+70	∘c	SX2050
al S	Storage Temperature	Ts	-55		+125		°C
Electrical Specifications	Aging						
	1st Year						
	Thereafter (per year)						
	Load Capacitance	CL		18		pF	See Note 2
	Shunt Capacitance	Со			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	

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

Note 2: Series resonant designated by "SR" prefix (i.e., SRATSM-49 or SRSX2050)

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.



MtronPTI Lead Free Solder Profile

