

# Quartz

Surface Mount

ADX49SM & ADX49SSM Series



## ADX49SM

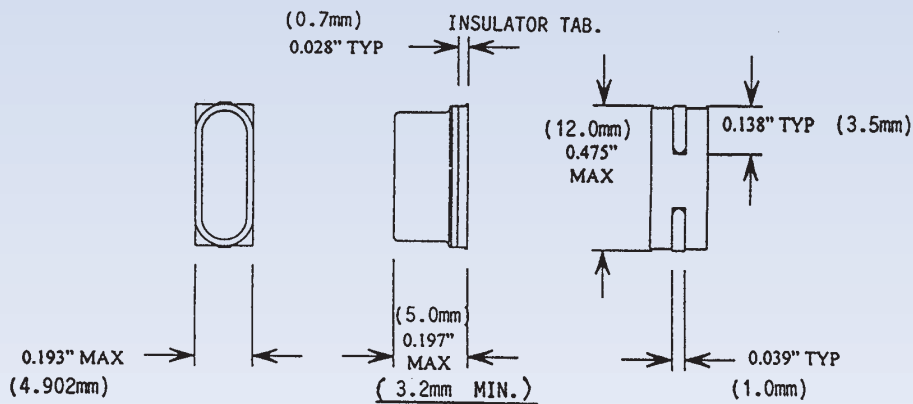


## ADX49SSM



### ADX49SM & ADX49SSM (unit: mm)

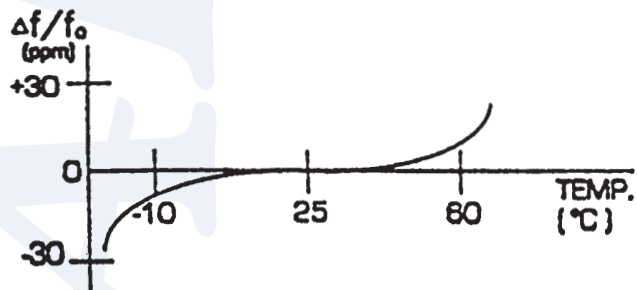
ADX49SM = 4.2 (H) ADX49SSM = 3.2 (H)



### STANDARD SPECIFICATIONS

Package Type		ADX49SM and ADX49SSM	Conditions
Frequency Range	F	3.500 MHz ~ 60.000 MHz	Fundamental
Frequency Tolerance		±30 ppm or ±50 ppm	Reference Temperature
25°C			
-10°C ~ +70°C	# f/F	±30 ppm or ±50 ppm	Adjustment Tolerance
Freq. vs. Temperature Characteristics			
Operating Temperature Range		-10°C ~ +70°C	
Storage Temperature Range		-40°C ~ +85°C	
Equivalent Series Resistance	ESR	See Drawing	
Load Capacitance	CL	Please Specify	
Shunt Capacitance	Co	7 pF max.	
Drive Level	P	100 µW	
Insulation Resistance		500 MΩ min.	DC 100V ±15V
Aging (for first year)	# f/F	±5 ppm max.	T = 25°C ±3°C
Sealing		1 x 10 <sup>-7</sup> mber <sup>-1</sup> /sec. max.	
Shock Resistance		±10 ppm max.	
Drop Test of 3 times on a Hard Board from 75 cm Height.			

### FREQUENCY vs. TEMPERATURE CHARACTERISTICS



### EQUIVALENT SERIES RESISTANCE (E.S.R.)

Frequency (MHz)	Vibration Code	E.S.R. max.
2.5 ~ 3.8	Fundamental	150Ω
3.81 ~ 4.1	Fundamental	120 Ω
4.11 ~ 5.0	Fundamental	100 Ω
5.01 ~ 6.0	Fundamental	80 Ω
6.01 ~ 8.0	Fundamental	70 Ω
8.01 ~ 10.0	Fundamental	60 Ω
10.01 ~ 12.0	Fundamental	50 Ω
12.01 ~ 26.0	Fundamental	40/50 Ω
28.0 ~ 60.0	3rd Overtone	60/80 Ω

# Quartz Part Numbering Guide

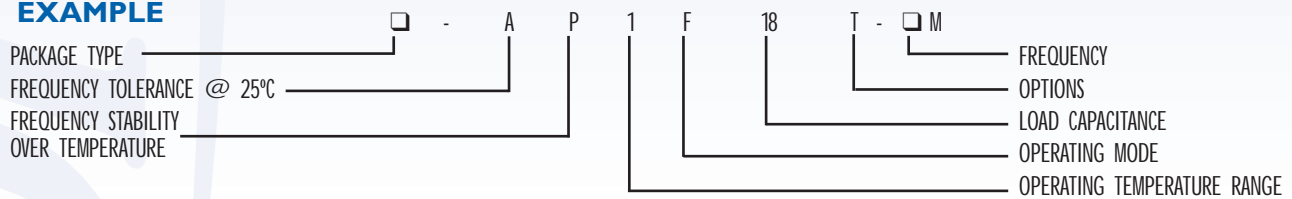
Surface Mount

ADXSM, ADX49SM, ADX49SSM1/SSM2, ADX49SMP/SMP1 Series



<b>Package Type</b>	ADXSM-351 pg10 ADXSM-364 pg11 ADXSM-365 pg12 ADXSM-463 pg16 ADXSM-481 pg17 ADXSM-491 pg20 ADXSM-492 pg20	ADXSM-571 pg21 ADXSM-572 pg22 ADXSM-581 pg23 ADXSM-5111A pg24 ADXSM-6122A pg24 ADXSM-6121A pg25 ADXSM-5122A pg25	ADXSM-5134AZ pg26 ADXSM-5136AZ pg26 ADXSM-5135AZ pg27 ADXSM-5137AZ pg27 ADXSM-5138AZ pg28 ADXSM-5121B pg29 ADXSM-5122B pg29	ADX49SM pg30 ADX49SSM pg30 ADX49SSM1 pg31 ADX49SSM2 pg31 ADX49SMP pg32 ADX49SMP1 pg32
<b>Frequency Tolerance @ 25°C</b>	±100ppm A ±50ppm B ±45ppm C	±40ppm D ±35ppm E ±30ppm F	±25ppm G ±20ppm H ±15ppm I	±10ppm J ±5ppm K
<b>Frequency Stability Over Temperature</b>	±100 ppm P ±50 ppm Q ±45 ppm R ±40 ppm S	±35 ppm T ±30 ppm U ±25 ppm V ±20 ppm W	±15 ppm X ±10 ppm Y ±7.5 ppm YY ±5 ppm Z	±4 ppm ZZ ±3 ppm ZY
<b>Operating Temperature Range</b>	0°C to +70°C 1 -10°C to +60°C 2 -20°C to +70°C 3 -40°C to +75°C 4	-40°C to +85°C 5 -40°C to +90°C 6 0°C to +55°C 7 -40°C to +125°C 8	0°C to +50°C 9 -10°C to +50°C 10 -10°C to +70°C 11 -30°C to +75°C 12	-30°C to +80°C 13 -350°C to +80°C 14
<b>Operating Mode</b>	Fundamental F 3rd Overtone 3	5th Overtone 5 7th Overtone 7	9th Overtone 9	
<b>Load Capacitance</b>	6 pF 6 10 pF 10 12 pF 12	15 pF 15 16 pF 16 18 pF 18	20 pF 20 22 pF 22 30 pF 30	32 pF 32 50 pF 50 Series S
<b>Options</b>	Bulk Blank	Insulator Tab I	Tape & Reel T	
<b>Frequency</b>	MHz M	KHz K		

**EXAMPLE**



<b>Package Type</b>	ADXSM-281 pg9 ADXSM-371 pg13 ADXSM-391 pg14	ADXSM-411 pg15 ADXSM-412 pg15 ADXSM-481A pg18	ADXSM-481B pg19 ADXSM-482B pg19
<b>Frequency Tolerance @ 25°C</b>	±100ppm A ±50ppm B ±45ppm C ±40ppm D	±35ppm E ±30ppm F ±25ppm G ±20ppm H	±15ppm I ±10ppm J ±5ppm K
<b>Load Capacitance</b>	6 pF 6	7 pF 7	12.5 pF 12.5
<b>Options</b>	Bulk Blank	Insulator Tab I	Tape & Reel T
<b>Frequency</b>	MHz M	KHz K	

**EXAMPLE**

