

Quartz Part Numbering Guide

Surface Mount

ADXSM Series

Package Type	ADXSM-351 ADXSM-364 ADXSM-365	pg9 pg10 pg11	ADXSM-463 ADXSM-481 ADXSM-571	pg12 pg13 pg14	ADXSM-572 ADX49SM ADX49SSM	pg15 pg16 pg16	ADX49SMP ADX49SMPI	pg17 pg17
Frequency Tolerance @ 25°C	±100ppm ±50ppm ±45ppm	A B C	±40ppm ±35ppm ±30ppm	D E F	±25ppm ±20ppm ±15ppm	G H I	±10ppm ±5ppm	J K
Frequency Stability Over Temperature	±100 ppm ±50 ppm ±45 ppm ±40 ppm	P Q R S	±35 ppm ±30 ppm ±25 ppm ±20 ppm	T U V W	±15 ppm ±10 ppm ±7.5 ppm ±5 ppm	X Y YY Z	±4 ppm ±3 ppm	ZZ ZY
Operating Temperature Range	0°C to +70°C -10°C to +60°C -20°C to +70°C -40°C to +75°C	1 2 3 4	-40°C to +85°C -40°C to +90°C 0°C to +55°C -40°C to +125°C	5 6 7 8	0°C to +50°C -10°C to +50°C -10°C to +70°C -30°C to +75°C	9 10 11 12	-30°C to +80°C -35°C to +80°C	13 14
Operating Mode	Fundamental 3rd Overtone	F 3	5th Overtone 7th Overtone	5 7	9th Overtone	9		
Load Capacitance	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	
Options	Bulk Blank		Insulator Tab	I	Tape & Reel	T		
Frequency	MHz	M	KHz	K				

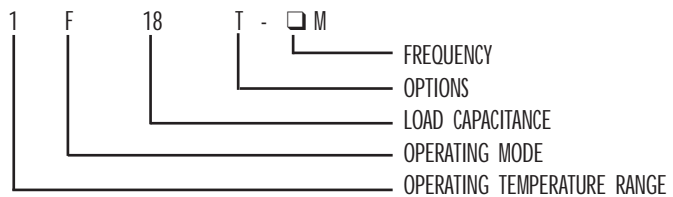
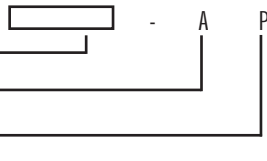
EXAMPLE

PACKAGE TYPE

FREQUENCY TOLERANCE @ 25°C

FREQUENCY STABILITY

OVER TEMPERATURE



FREQUENCY

OPTIONS

LOAD CAPACITANCE

OPERATING MODE

OPERATING TEMPERATURE RANGE

Quartz

Surface Mount

ADX49SMP



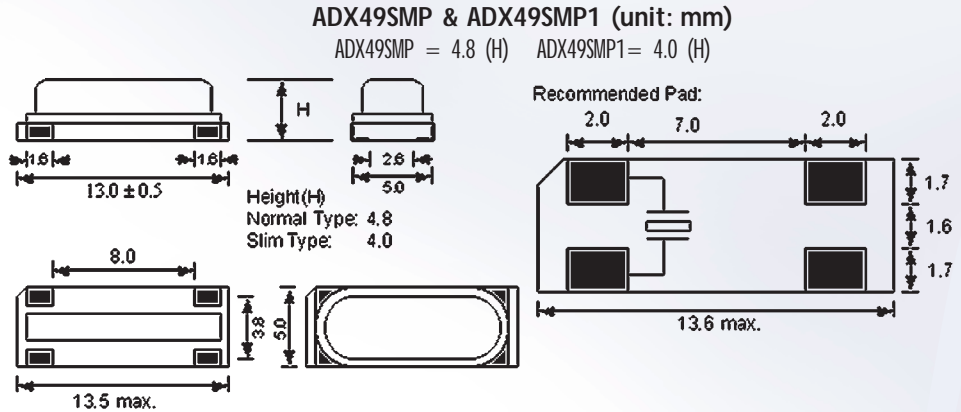
ADX49SMP1



ADX49SMP & ADX49SMP1 Series

FEATURES

- Resistance weld for low aging.
- Custom E.S.R. availability.
- Extended operating temperature range option.
- Fits standard thermoplastic footprint.



STANDARD SPECIFICATIONS

Package Type		ADX49SMP & ADX49SMP1	Conditions
Frequency Range	F	3.180 MHz ~ 65.000 MHz	AT Fund./3rd Overtone and BT Fund.
Frequency Tolerance 25°C	Δ f/F	±50 ppm std. / ±30 ppm opt.	Reference Temperature
-10°C ~ +70°C Freq. vs. Temperature Characteristics		±50 ppm std. / ±30 ppm opt.	Adjustment Tolerance
Operating Temperature Range		0°C ~ +70°C std. / -40°C ~ +85°C opt.	
Storage Temperature Range		-30°C ~ +85°C	
Equivalent Series Resistance	ESR	See Table Below	
Load Capacitance	CL	18 pF std. (Specify if Different)	
Shunt Capacitance	Co	7 pF max.	
Drive Level	P	50 ~ 100 μW	
Insulation Resistance		500 MΩ min.	DC 100V ±15V
Aging (for first year)	Δ f/F	±5 ppm max.	T = 25°C ±3°C
Sealing		1 x 10 ⁻² μPa·m ³ /sec. max..	
Shock Resistance		Drop Test of 3 times on a Hard Board from 75 cm Height.	

Tape and Reel packaging: 1,000 per reel

EQUIVALENT SERIES RESISTANCE (E.S.R.)

Frequency (MHz)	Vibration Code	E.S.R. max.
3.18 MHz to 7.00 MHz	AT Cut Fundamental	100~200Ω
7.01 MHz to 15.99 MHz	AT Cut Fundamental	60~90Ω
16.00 MHz to 28.0 MHz	AT Cut Fundamental	40Ω
24.0 MHz to 36.0 MHz	BT Cut Fundamental	40Ω
36.01 MHz to 40.0 MHz	BT Cut Fundamental	50Ω
27.0 MHz to 65 MHz	AT Cut 3rd Overtone	100Ω

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