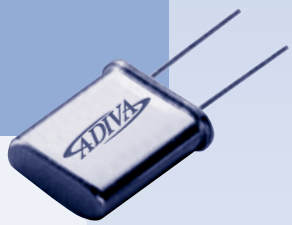
ADIVA Technology, Inc.

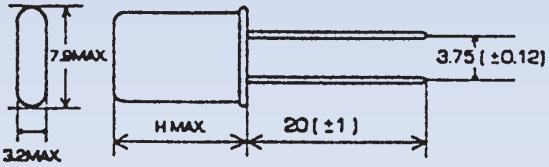
ADXUM1, ADXUM5, ADX49



FEATURES

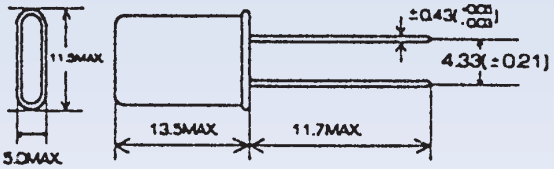
- These units are miniature crystal units featuring high reliability, due to their excellent shock resistance and environmental characteristics.
- They cover a wide frequency range, and permit free choice of type to best suit the specific application.
- Applications: communication equipment, AV equipment, OA equipment and measuring instruments.

ADXUM1 & ADXUM5 (unit: mm)



UM-1 = 8.1MM
UM-5 = 6.0MM

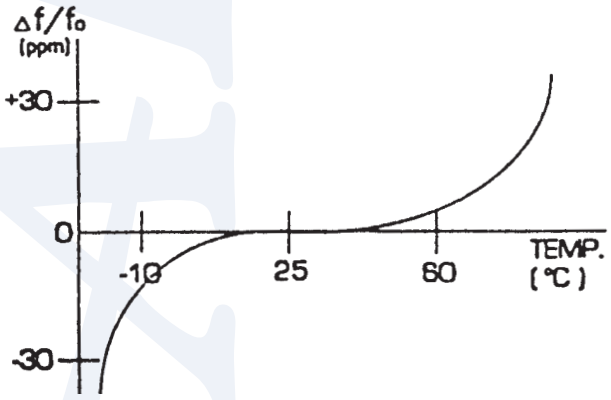
ADX49 (UNIT: mm)



STANDARD SPECIFICATIONS

Package Type		ADXUM1	ADXUM5	ADX49	Conditions
Frequency Range	F	7.000 MHz ~ 200 MHz	20 MHz ~ 150 MHz	1.800 MHz ~ 70 MHz	
Frequency Tolerance	# f/F	±30 ppm	±15 ppm	±30 ppm	T = 25°C ±3°C
Temperature Characteristics	# f/F	±30 ppm	±10 ppm	±30 ppm	-10°C ~ +60°C
Operating Temperature Range		-10°C ~ +80°C	-10°C ~ +80°C	-10°C ~ +80°C	
Storage Temperature Range		-30°C ~ +80°C	-30°C ~ +80°C	-30°C ~ +80°C	
Equivalent Series Resistance	Rs	See Drawing	See Drawing	See Drawing	
Load Capacitance	CL	Please Specify	Please Specify	Please Specify	
Shunt Capacitance	Co	7 pF max.	7 pF max.	7 pF max.	
Drive Level	P	50 µW	50 µW	100 µW	
Insulation Resistance		500 MΩ	500 MΩ	500 MΩ	DC 100V ±15V
Aging (for first year)	# f/F	±5 ppm max.	±3 ppm max.	±5 ppm max.	T = 25°C ±3°C
Sealing		1 x 10-7 mber-l/sec. max.	1 x 10-7 mber-l/sec. max.	1 x 10-7 mber-l/sec. max.	
Shock Resistance		±3 ppm	±3 ppm	±5 ppm	
		Drop Test of 3 times on a Hard Board from 75 cm Height.			

FREQUENCY vs. TEMPERATURE CHARACTERISTICS



EQUIVALENT SERIES RESISTANCE (E.S.R.)

Item	Frequency (MHz)	Vibration Code	E.S.R. max.
ADXUM1	7.0 ~ 8.0	Fundamental	80 ~ 120Ω
	10.0 ~ 12.0	Fundamental	40 ~ 60Ω
	14.31818 ~ 25.0	Fundamental	30 Ω
ADXUM5	20.0 ~ 30.0	Fundamental	30 Ω
	44.9 ~ 90.0	3rd Overtone	60 Ω
	80.0 ~ 150.0	3rd Overtone	120 Ω
ADX49	1.8432 ~ 4.0	Fundamental	80 ~ 600Ω
	8.0 ~ 10.0	Fundamental	25 ~ 35Ω
	20.0 ~ 490.0	Fundamental	25 ~ 40Ω

SEE PAGE 33 FOR PART NUMBERING GUIDE

Quartz Part Numbering Guide

Thru Hole

ADX Series

Package Type	UM-1 ADXUM1 pg34 UM-2 ADXUM2 pg34 UM-5 ADXUM5 pg34 HC36/U ADX36 pg34	HC42/U ADX42 pg34 HC43/U ADX43 pg34 HC47/U ADX47 pg34 HC48/U ADX48 pg34	HC49/U ADX49 pg34 HC49/S ADX49S pg35 HC49/SS ADX49SS pg36 HC49/SS ADX49SS1 pg36	HC49/T ADX49T pg36 HC50/U ADX50 pg36 HC50/T ADX50T pg36
Frequency	MHz M	KHz K		
Frequency Tolerance @ 25°C	±100ppm A ±50ppm B ±45ppm C	±40ppm D ±35ppm E ±30ppm F	±25ppm G ±20ppm H ±15ppm I	±10ppm J ±5ppm K
Frequency Stability Over Temperature	±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 ±5 ppm Z
Operating Temperature Range	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
Operating Mode	Fundamental F 3rd Overtone 3	5th Overtone 5 7th Overtone 7	9th Overtone 9	
Load Capacitance	6 pF 6 10 pF 10 12 pF 12	18 pF 18 20 pF 20 22 pF 22	30 pF 30 32 pF 32 50 pF 50	Series S
Options	Third Lead L	Insulator Tab I	Tape & Reel T	Vinyl Sleeving V

EXAMPLE

❑ - ❑ M - A P 1 F 18 I

- PACKAGE TYPE
- FREQUENCY
- FREQUENCY TOLERANCE @ 25°C
- OPTIONS
- LOAD CAPACITANCE
- OPERATING MODE
- OPERATING TEMPERATURE RANGE
- FREQUENCY STABILITY OVER TEMPERATURE

Package Type	ADX26T pg37 ADX38T pg38				ADX309 pg39 ADX310 pg39	
Frequency	MHz	M	KHz	K		
Frequency Tolerance @ 25 C	±100ppm ±50ppm ±45ppm ±40ppm	A B C D	±35ppm ±30ppm ±25ppm ±20ppm	E F G H	±15ppm ±10ppm ±5ppm	I J K
Load Capacitance	6pF	6	7pF	7	12.5pF	12.5
Option	Bulk	Blank	Tape & Reel	T		

H 12.5

- PACKAGE TYPE
- FREQUENCY
- OPTION
- LOAD CAPACITANCE
- FREQUECY TOLERANCE @ 25 C