



# FREQTECH®

## FT1A

ROHS COMPLIANT | PACKAGE: METAL

### electrical specifications

parameters	conditions	minimum	standard	maximum	units
frequency range		1,84320		125,0	MHz
frequency stability	@ +25°C	+/- 5	+/- 30	+/- 50	ppm
temperature tolerance	@ -20°C ~ +70°C	+/- 5	+/- 30	+/- 50	ppm
	@ -40°C ~ +85°C	+/- 50		+/- 100	
operating temperature range		-40	-20 ~ +70	+85	°C
storage temperature range		-40	-40 ~ +85	+105	°C
shunt capacitance			7		pF
load capacitance	customer specified	10	30	series	pF
drive level			100	500	μW
aging	@ +25°C, per year	-5,0		+5,0	ppm

### equivalent series resistance + mode of vibration

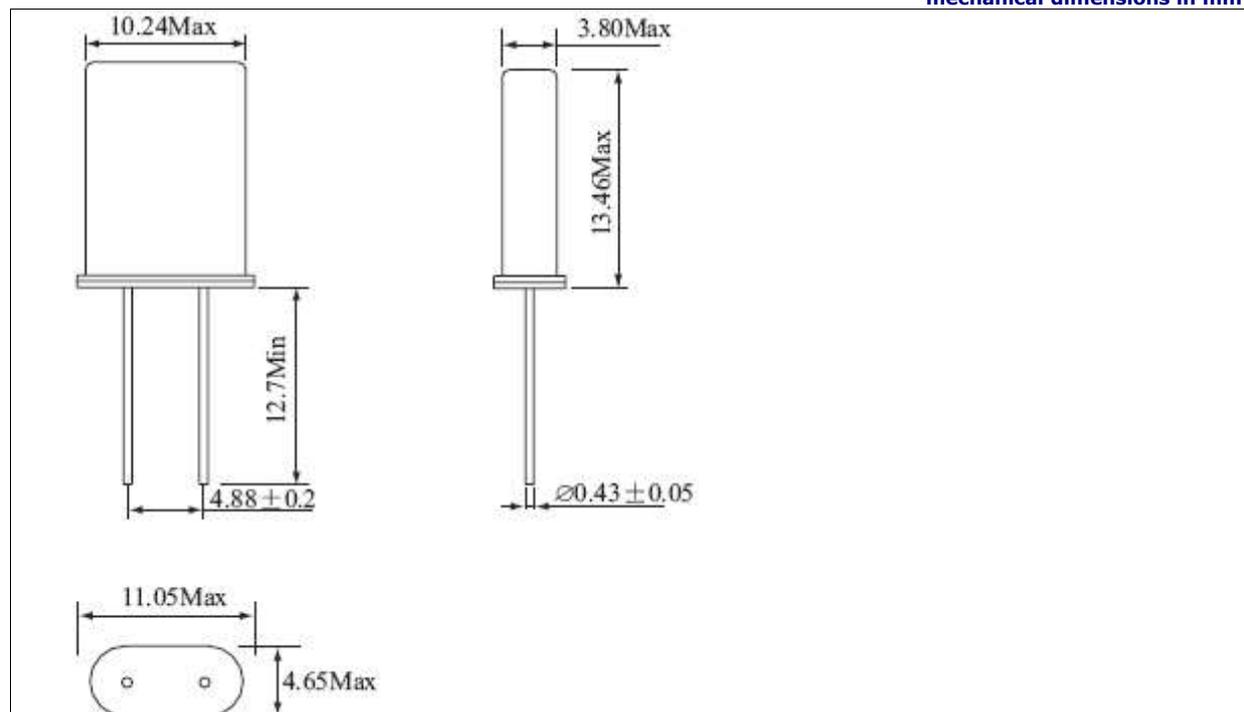
frequency range (MHz)	max. ESR (Ω)	mode	frequency range (MHz)	max. ESR (Ω)	mode
1,8432 - 1,999	650	fundamental	6,0 - 7,999	50	fundamental
2,0 - 2,999	500	fundamental	8,0 - 12,999	35	fundamental
3,0 - 3,499	250	fundamental	13,0 - 32,0	25	fundamental
3,50 - 3,999	150	fundamental	24,0 - 29,999	60	3rd overtone
4,0 - 4,999	100	fundamental	30,0 - 79,999	40	3rd overtone
5,0 - 5,999	80	fundamental	80,0 - 125,0	90	5th overtone

### ordering key

type	- frequency	/ load capacitance	- frequency stability	- temperature tolerance	/ operating temperature
FT1A	value in MHz	value in pF	value in ppm	value in ppm	27 = -20°C~+70°C
		s for series			48 = -40°C~+85°C

**EXAMPLE: FT1A-16,0/30-30-30/27**

### mechanical dimensions in mm



FT1A 215