

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Features and Benefits

High temperature operation up to 175°C High shock resistance Hermetically sealed ceramic package

Typical Applications

Downhole instrumentation Rotary shaft sensors Underground boring tools

Description

HTXTAL5200CA-32.768KHz is designed to operate at temperatures up to and including 175°C and feature an expected life in excess of 1,000 hours at these temperatures.



Dynamic Engineers, Inc.

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Specifications

Oscillator Specification	Sym	Condition		Value			Nata
			Min.	Тур.	Max.	Unit	Note
Frequency Range	F			32.768		KHz	
Load Capacitance	CL		9		pF		
Shunt Capacitance	C0			1.1		pF	
Drive Level					0.5	uW	
Motional Resistance	R1			70		Kohm	
Motional Capacitance	C1			2.3		fF	
Quality Factor				31K			
Turnover Temperature				23		°C	
Typical Motional Resistance at	R1	150°C		100		Kohm	
	R1	175°C		125		Kohm	
Frequency Stability							
Calibration Tolerance		(at 25°C)		±100ppm		ppm	
Aging		@+25°C 1st year		±5		ppm	
Environmental Conditions							
Operating temperature		0°C to +175°C					
Shock, survival		5,000 g, 0.3 ms,0.5 sine					