THE DATASHEET OF

9HT10-32.768KDZF-T

9HT10
kHz Crystal

Features

- Frequency range : 32.768 kHz
- SMD : Ceramic package
- External dimensions (mm)
  L : 3.2 x W : 1.5 x H : 0.75
- RoHS compliant & Pb free

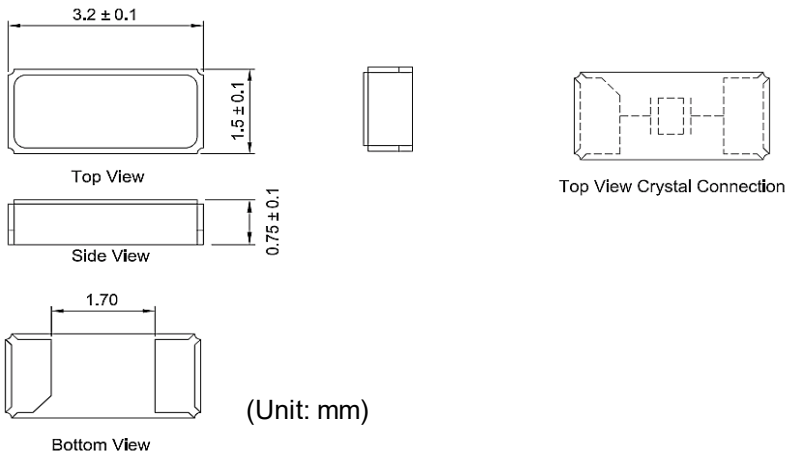
Applications

- Small mobile devices
- Communication devices
- Consumer products
- Commercial & industrial applications

Electrical Characteristics

Item	Symbol	9HT10	Conditions
Nominal Frequency	f_0	32.768 kHz	
Frequency Tolerance	$\Delta f/f_0$	±10ppm, ±20ppm, ±30ppm, ±50ppm	at 25°C
Load Capacitance	C_L	6pF, 7pF, 9pF, 12.5pF	
Operating Temperature Range	T_{OTR}	-40°C ~ +85°C	
		-40°C ~ +125°C	
Storage Temperature Range	T_{STR}	-55°C ~ +125°C	
Turnover Temperature	T_M	25°C ± 5°C	
Temperature Coefficient	β	-0.04 ppm/°C^2 Max.	
Motional Capacitance	C_1	3.1 fF Typ.	
Motional Resistance (ESR)	R_1	70 kΩ Max.	at 25°C
Drive Level	D_L	0.1μW Typ. / 1.0μW Max.	
Aging	$\Delta f/f_0$	±3 ppm Max.	at 25°C ± 3°C, first year
Shunt Capacitance	C_0	1.0 pF Typ.	

Dimensions



(Unit: mm)

Ordering Information

9HT10 - 32.768K D Z F - T

Frequency Tolerance (at 25˚C)

B	± 50 ppm
A	± 30 ppm
D	± 20 ppm
E	± 10 ppm

Operating Temperature Range

Z	-40˚C ~ +85˚C
W	-40˚C ~ +125˚C

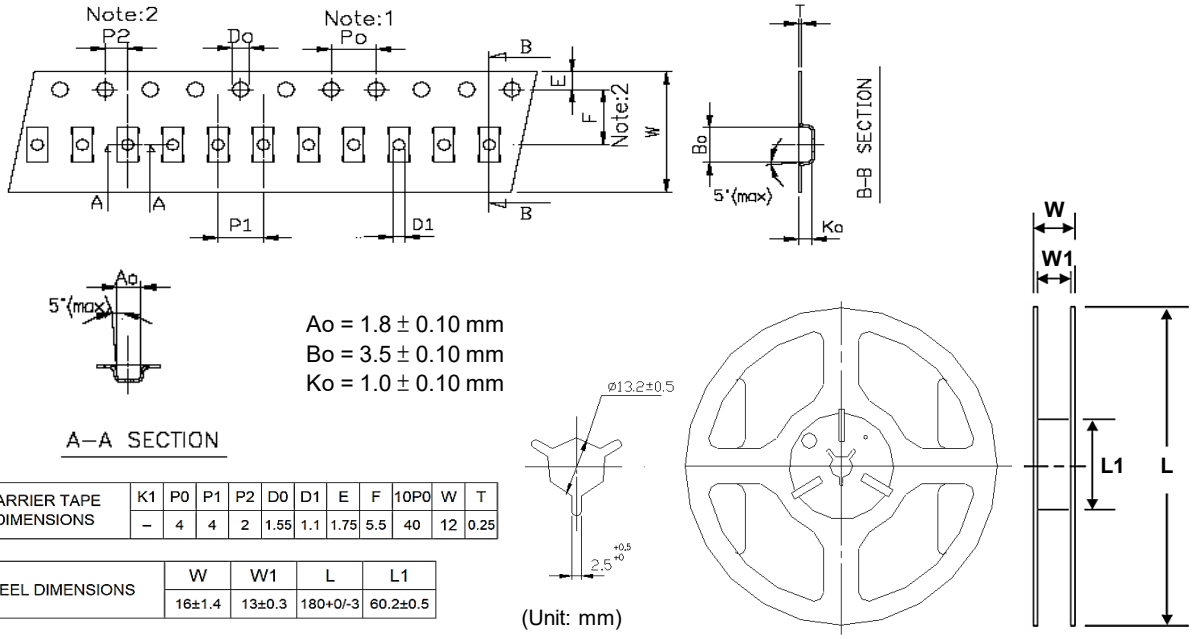
Packaging Method

T	Tape & Reel

Load Capacitance

B	6 pF
Y	7 pF
C	9 pF
F	12.5 pF

Packing



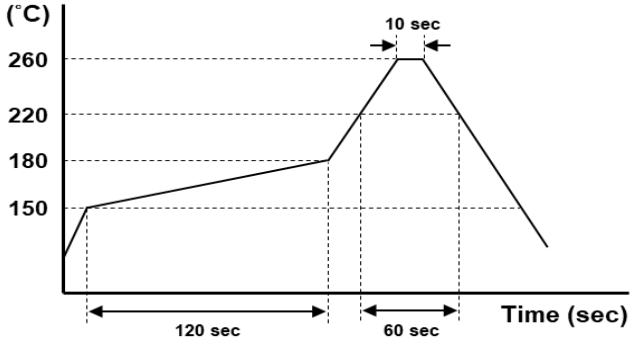
Ao = 1.8 ± 0.10 mm
Bo = 3.5 ± 0.10 mm
Ko = 1.0 ± 0.10 mm

CARRIER TAPE DIMENSIONS	K1	P0	P1	P2	D0	D1	E	F	10P0	W	T
	–	4	4	2	1.55	1.1	1.75	5.5	40	12	0.25

REEL DIMENSIONS	W	W1	L	L1
	16±1.4	13±0.3	180+0/-3	60.2±0.5

(Unit: mm)

Reflow Profile



Total time : Max. 200 sec.
Solder melting point : 220˚C

Looking for pricing, stock, or lifecycle information?

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- View 9HT10-32.768KDZF-T on WIN SOURCE
- TXC CORPORATION Information

Optimize Your Supply Chain with WIN SOURCE Solutions

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- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management