

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

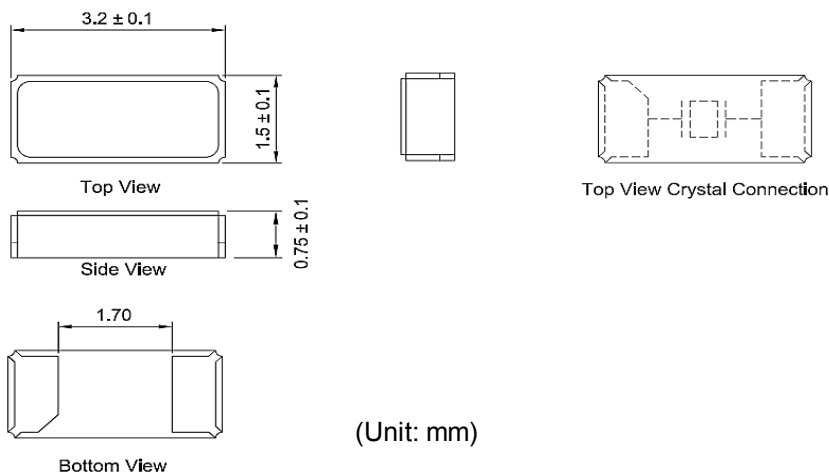
Applications

Small mobile devices
 Communication devices
 Consumer products
 Commercial & industrial applications

Electrical Characteristics

Item	Symbol	9HT10W	Conditions
Nominal Frequency	f_0	32.768 kHz	
Frequency Tolerance	$\Delta f/f_0$	$\pm 10\text{ppm}, \pm 20\text{ppm}$	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 \pm 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 \pm 3°C, first year
Shunt Capacitance	C_0	1.0 pF Typ.	

Dimensions

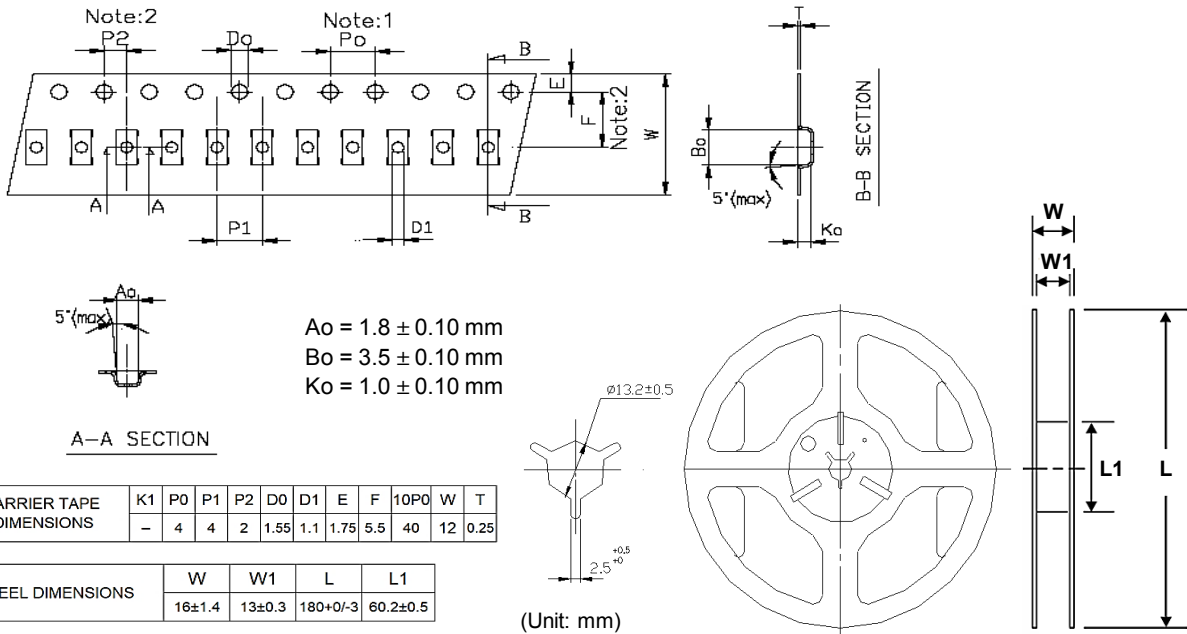


Ordering Information

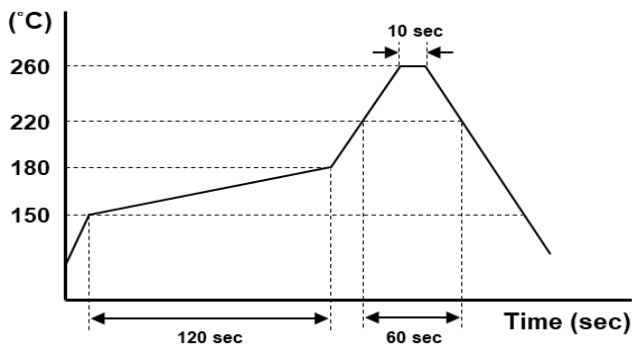
9HT10W - 32.768K D W F - T

Frequency Tolerance (at 25°C) D ± 20 ppm E ± 10 ppm	Operating Temperature Range 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
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Packing



Reflow Profile



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