

Features

- Frequency range : 32.768 kHz
- Low ESR
- SMD : Ceramic package
- External dimensions (mm)
L : 2.0 x W : 1.2 x H : 0.6
- RoHS compliant & Pb free

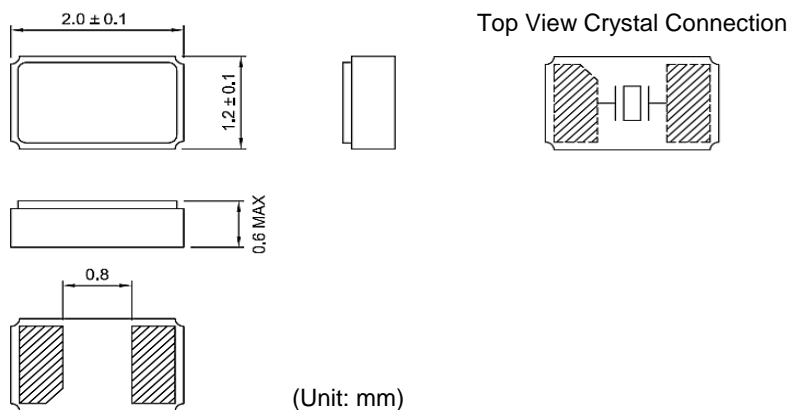
Applications

- Power sensitive designs
- Small mobile devices
- Communication devices
- Consumer products
- Commercial & industrial applications

Electrical Characteristics

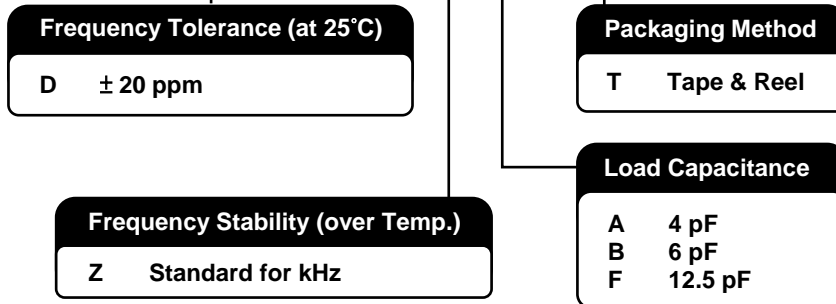
Item	Symbol	QT2CL	Conditions
Nominal Frequency	f_0	32.768 kHz	
Frequency Tolerance	$\Delta f/f_0$	± 20 ppm	at 25°C
Load Capacitance	C_L	4pF, 12.5pF	
Operating Temperature Range	T_{OTR}	-40°C ~ +85°C	
Storage Temperature Range	T_{STR}	-55°C ~ +125°C	
Turnover Temperature	T_M	25°C \pm 5°C	
Temperature Coefficient	β	-0.04 ppm/°C ² Max.	
Motional Capacitance	C_1	9.5 fF Typ.	
Motional Resistance (ESR)	R_1	70 kΩ Max.	at 25°C
Drive Level	D_L	0.1μW Typ. / 0.5μW Max.	
Aging	$\Delta f/f_0$	± 3 ppm Max.	at 25°C \pm 3°C, first year
Shunt Capacitance	C_0	1.9 pF Typ.	

Dimensions

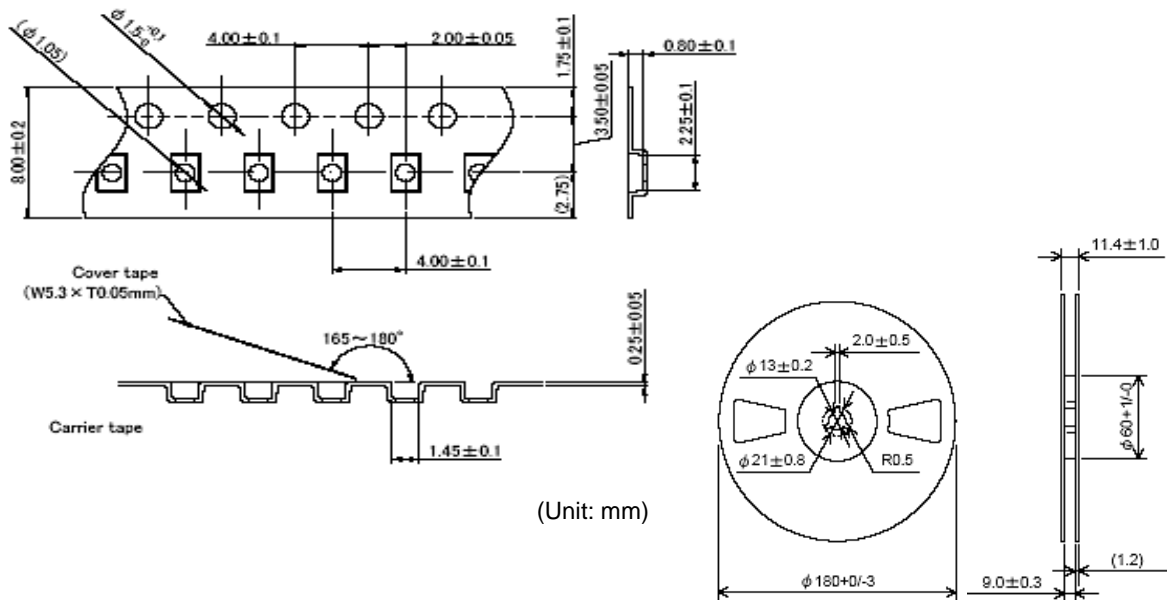


Ordering Information

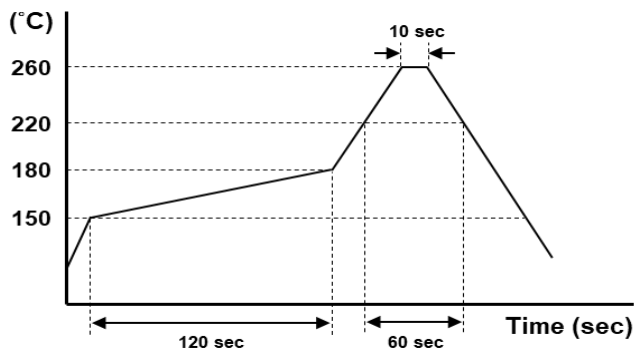
QT2CL - 32.768K D Z F - T



Packing



Reflow Profile



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