

### Features

- Frequency range : 32.768 kHz
- Metal lid GND connected  
EMI reduced type
- SMD : Ceramic package
- External dimensions (mm)  
L : 3.3 x W : 1.6 x H : 0.9
- RoHS compliant & Pb free

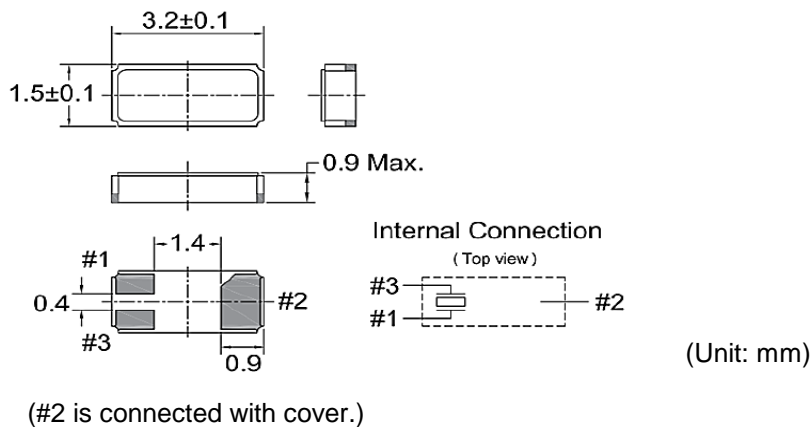
### Applications

- Smart meters  
Communication devices  
Measuring equipments  
Consumer products  
Commercial & industrial applications

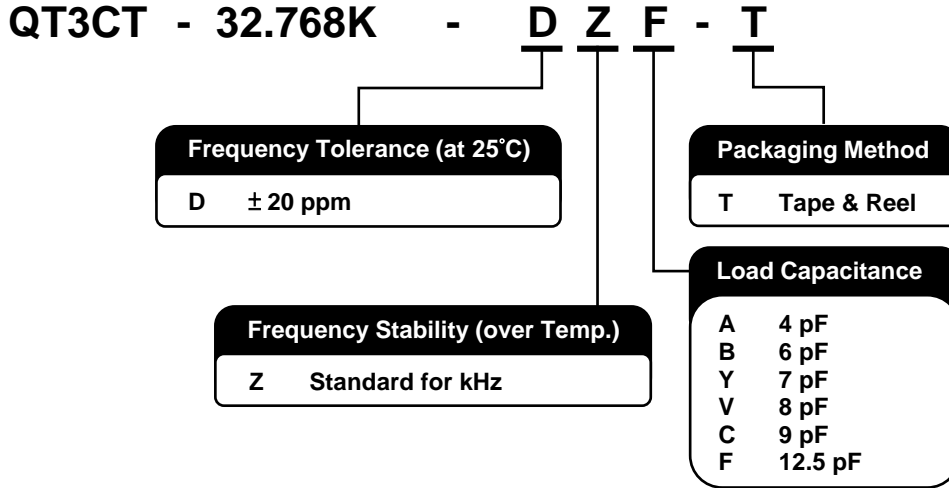
### Electrical Characteristics

Item	Symbol	QT3CT	Conditions
Nominal Frequency	$f_0$	32.768 kHz	
Frequency Tolerance	$\Delta f/f_0$	$\pm 20$ ppm	at 25°C
Load Capacitance	$C_L$	4pF, 6pF, 7pF, 8pF, 9pF, 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	$\beta$	-0.034 $\pm$ 0.006ppm/°C <sup>2</sup>	
Motional Resistance (ESR)	$R_1$	70 kΩ Max.	at 25°C
Drive Level	$D_L$	1 $\mu$ W Max.	
Aging	$\Delta f/f_0$	$\pm 3$ ppm Max.	at 25°C $\pm$ 3°C, first year
Shunt Capacitance	$C_0$	0.75 pF Typ.	

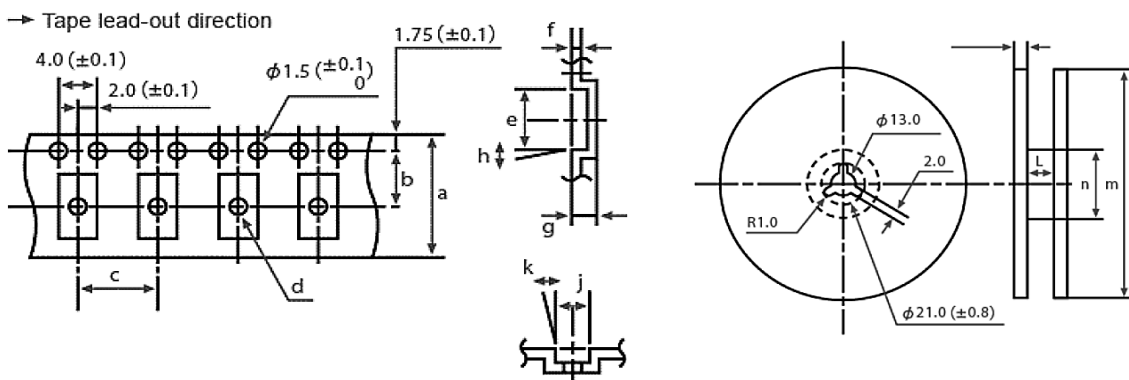
### Dimensions



### Ordering Information



### Packing



a	b	c	d (φ)	e	f	g	h	j	k	l	m (φ)	n (φ)
12.0	5.5	4.0	1.0	3.6	0.3	1.0	5°	1.9	5°	13.0	180	60

### Reflow Profile

