



Features

- > This type of crystal is miniature and of high accuracy, excellent in shock resistance and low in power consumption. It's widely used in Watches & clocks, Telephones, Game systems, Measuring equipment, Computer etc.

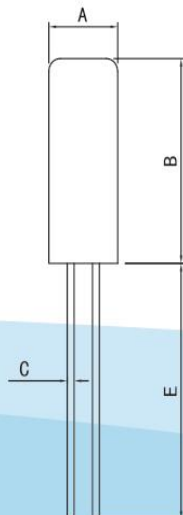
Electrical Specifications

Holder Type	$\phi 3 \times 8$	$\phi 2 \times 6$	$\phi 1.5 \times 5$	$\phi 1.2 \times 4.6$
Frequency Range	30 ~ 350 KHz			
Load Capacitance	12.5 pF, or specify			
Frequency Tolerance (at 25 °C)	± 10 , ± 20 , ± 30 , ± 50 ppm, or specify			
Operating Temperature Range	$-20 \sim +70$ °C, $-40 \sim +85$ °C, or specify			
Storage Temperature Range	$-40 \sim +85$ °C			
Shunt Capacitance (C0)	1.5 pF Max.			
Drive Level	1 μ W MAX			
Insulation Resistance	500 M Ω Minimum at 100VDC			
Aging (at 25°C)	$\pm 3/\pm 5$ ppm / year Max.			

Equivalent Series Resistance (ESR)

Frequency Range (KHz)	ESR K Ω (MAX)
32~40	40
40~60	30
60~350	25

Dimensions



unit:mm

MODEL	A	B	C	D	E
TF308	$\phi 3.1$ MAX	8.0 MAX	$\phi 0.3$	1.1	10
TF206	$\phi 2.1$ MAX	6.0 MAX	$\phi 0.2$	0.7	7
TF145	$\phi 1.5$ MAX	5.0 MAX	$\phi 0.2$	0.5	7
TF124	$\phi 1.2$ MAX	4.6 MAX	$\phi 0.15$	0.5	7