



Features

- 2 pads ceramic surface mount package.
- 2012 size miniature and lightweight SMD tuning fork crystal resonator with a low profile of 0.60mm.
- High reliable environmental performance.
- Automatic mounting and reflow soldering.
- Application for variety of automotive, Mobile communications, PDA, Wave clock, Wireless communications, digital appliance, etc.



Electrical Specifications

Type	KSM2012 TUNING FORK CRYSTAL
Frequency Range	32.768 kHz
Load Capacitance	12.5pF, other spec.
Drive Level	0.5μW Max.
Frequency Tolerance	±20ppm, or specify
Turnover Temperature	25°C±5°C
Parabolic Coefficient	$(-0.03 \pm 0.01) \times 10^{-6} / ^\circ\text{C}^2$
Operating Temperature Range	-20~+70°C, -40~+85°C
Storage Temperature Range	-55~+125°C
Aging (at 25°C)	±3ppm at first year
Shunting Capacitance	1.3pF Typ.
Packing Unit	3000pcs/Reel

Equivalent Series Resistance(ESR)

Fundamental	
32.768kHz	90 kΩ Max.

Ordering Information

KSM2012	R32K	125	20	A	
Product Code	Frequency Range	Load Capacitance	Frequency Tolerance	Operating Temperature	
	32.768 kHz	125 =12.5pF	20=±20ppm	A:-20~+70°C	D:-40~+125°C
				B:-10~+70°C	E:-10~+60°C
				C:-40~+85°C	F:-30~+70°C

Dimension

Units:mm

