KYOCERA

2.0×1.2mm for Consumer/ Mobile Equipment

RoHS Compliant

Features

- Ultra Small, Low Profile
- Ceramic Package
- Reflow Compatible

Applications

- Consumer/ Mobile Equipment

How to Order

ST2012SB 32768 □□ H P W □□
① ② ③ ④ ⑤ ⑥ ⑦

① Series

② Frequency
32.768kHz

③ Load Capacitance

H5	12.5 pF	Std.
E0	9.0 pF	
C0	7.0 pF	
B0	6.0 pF	
A0	5.0 pF	
Z0	4.0 pF	

④ Frequency Tolerance

H	±20×10^{-6}

⑤ Operating Temp. Range

P	−40 to +85°C

⑥ Frequency Temp. Stability

W	±200×10^{-6}

⑦ Individual Specification

Packaging (Tape & Reel 3000/ 12000 pcs./ reel)

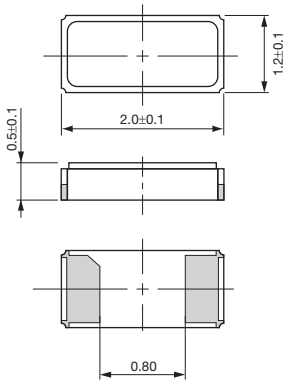
Products for Pre-Existing Designs

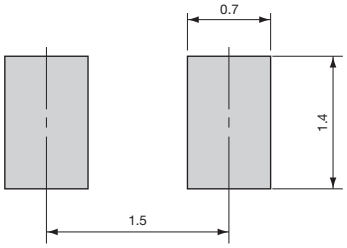
Specifications

Item	Symbol	Specification	Units	Remarks
Nominal Frequency	f_{nom}	32.768	kHz	
Frequency Tolerance	f_{tol}	±20	×10^{-6}	25°C±3°C
Turnover Temperature	Ti	+25±5	°C	
Parabolic Coefficient	B	−0.04 max.	×10^{-6}/ °C^2	
Motional Resistance	R1	80 k max.	ohm	
Motional Capacitance	C1	5.8 typ.	fF	
Shunt Capacitance	C0	1.3 typ.	pF	
Load Capacitance	CL	4.0/ 5.0/ 6.0/ 7.0/ 9.0/ 12.5	pF	Please contact us for other Load Capacitance.
Drive Level	DL	0.1	μW	0.5 max.
Operating Temp. Range	T_{use}	−40 to +85	°C	
Storage Temp. Range	T_{stg}	−40 to +85	°C	
Frequency Aging	f_{age}	±3	×10^{-6}	

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)