



kHz Range Crystal Devices

Crystal Units

Surface Mount Type: Tuning Fork ST3215SB



3.2×1.5mm for Consumer/ Mobile Equipment



RoHS Compliant

Features

- Small, Low Profile
- Ceramic Package
- Pb Free
- Reflow Compatible

Applications

- Consumer/ Mobile Equipment

How to Order

ST3215SB 32768 ☐ ☐ ☐ ☐ ☐ ☐ ☐

- ① Series ② Frequency 32.768kHz
③ Load Capacitance ④ Frequency Stability
H5 12.5 pF **H** $\pm 20 \times 10^{-6}$
⑤ Operating Temp. Range ⑥ Frequency Temp. Stability
P -40 to +85°C **W** $\pm 200 \times 10^{-6}$
⑦ Individual Specification

Packaging (Tape & Reel 3000/ 10000 pcs./ reel)

Typical Part Numbers

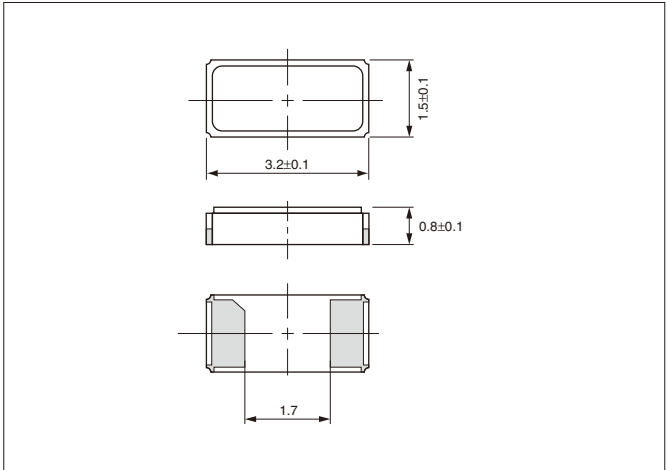
Load Capacitance	Part Numbers
12.5	ST3215SB32768H5HPWAA
9.0	ST3215SB32768E0HPWBB
7.0	ST3215SB32768C0HPWBB

Specifications

Item	Symbol	Specification	Units	Remarks
Nominal Frequency	f _{nom}	32.768	kHz	
Frequency Tolerance	f _{tol}	±10, ±20	×10 ⁻⁶	25°C±3°C
Turnover Temperature	T _i	+25±5	°C	
Parabolic Coefficient	B	-0.04 max.	×10 ⁻⁶ /°C ²	
Motional Resistance	R ₁	70 max.	k-ohm	
Motional Capacitance	C ₁	3.7 typ.	fF	
Shunt Capacitance	C ₀	0.9 typ.	pF	
Load Capacitance	CL	12.5/ 9.0/ 7.0	pF	Please contact us
Drive Level	DL	0.1	μW	
Operating Temp. Range	T _{use}	-40 to +85	°C	
Storage Temp. Range	T _{stg}	-55 to +125	°C	
Frequency Aging	f _{age}	±3	×10 ⁻⁶	

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

