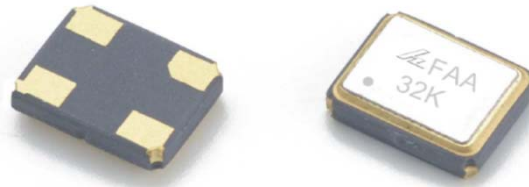


Oscillator 32.768KHz(2.0x2.5) SMD Type



Application of Crystal

- ▶ PLL circuit
- ▶ Broad casting equipment
- ▶ AFC circuit
- ▶ Sonet/SDH.ATM
- ▶ FM modulator



Features

- ▶ High reliability for low cost
- ▶ Low-priced SMD-clock-oscillator
- ▶ Frequency stability from ± 20 to ± 50 ppm available
- ▶ Supply voltage of 1.8, 2.5, 2.8, 3.3 and 5.0 VDC deliverable
- ▶ Extended temperature range -40°C to $+105^{\circ}\text{C}$
- ▶ RoHS compliant / Pb free



Electrical Specification

PARAMETERS	CHARACTERISTICS	UNITS
Frequency Range	32.768	KHz
Frequency Stability	$\pm 20, \pm 30, \pm 50$	ppm
Operating Temperature Range	$0 \sim 70, -40 \sim 85$	$^{\circ}\text{C}$
Storage Temperature Range	$-40 \sim +85$	$^{\circ}\text{C}$
Supply Voltage	$1.8 \sim 5.0$	V
Current	15 max.	mA
Output	CMOS/TTL	-
Output Symmetry	$45 \sim 55\%$ ($V_T=1/2V_{DD}$)	-
Rise Time/Fall Time	10 max.	ns
Start-Up Time	10 max.	ms

