

# OSCILLATOR SBXO - 25

## APPLICATIONS

32.768KHz / Time-Base oscillator  
7.1mm X 5.3mm X 1.5mm(H)

PICTURE  
AREA

- ▶ RTC
- ▶ Mobile
- ▶ CCD module
- ▶ Timing peripherals

### OUTLINE DIMENSIONS

Pin No.	Function
1	V <sub>IO</sub>
2	GND
3	Frequency output
4	V <sub>DD</sub>

If not use V<sub>IO</sub> function, Connect #1 to V<sub>DD</sub>

### ELECTRICAL SPECIFICATIONS

Frequency range	32.768KHz		
Frequency stability	±25ppm	±50ppm	±100ppm
	Inclusive of operating temperature		
Operating temperature range	0 °C ~ 70 °C		
Storage temperature range	-50 °C ~ 105 °C		
Input voltage	+1.8Vdc ~ +5.0Vdc		
Input current	5uA max.		
"0" / "1" level	+0.4V max. / V <sub>DD</sub> -0.4V min.		
Duty ratio	60/40% or 40/60% (typical)		
Rise & Fall time	200nS max. (at +20% to 80% and 80% to 20%)		
Fan out	15pF // 10 TTL		
Aging (at 25 °C)	±5ppm / year max.		

### ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

Shock	MIL-STD-883C, Method 2002, Condition B
Vibration	MIL-STD-883C, Method 2007, Condition A
Solderability	MIL-STD-883C, Method 2003
Marking	MIL-STD-202F, Method 215

### PART NUMBERING GUIDE

**SBXO 25 B A**

- Sbtron
- Oscillator
- Model No.
- Frequency stability
  - A = ± 25 ppm
  - B = ± 50 ppm
  - C = ±100 ppm
  - D = Customize
- Temperature range
  - A = 0 °C ~ 70 °C
  - B = -10 °C ~ 70 °C
  - C = -20 °C ~ 70 °C
  - D = Customize

*Standard specifications for product indicated in BLUE character*  
*Specifications subjects to change without notice & If you need other specifications, Contact our factory.*

