

OSCILLATOR SBXO - 20

CERAMIC SMD OSCILLATOR
5mm X 3.2mm X 1.2mm(H)

APPLICATIONS

- ▶ Mobile system
- ▶ CCD module
- ▶ Notebook
- ▶ PDA

PICTURE
AREA

OUTLINE DIMENSIONS

Pin No.	Function
#1	Tri-state or no connect
#2	GND
#3	Frequency output
#4	Vcc

< PAD LAYOUT >

ELECTRICAL SPECIFICATIONS

Frequency range	32.768KHz to 125.000MHz		
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	+3.3Vdc ±0.3V	+5.0Vdc ±0.5V	
Input current	45mA max.	60mA max.	
"0" / "1" level	+0.4V max. / +3.0V min.	+0.5V max. / +4.5V min.	
Duty ratio	45/55% or 55/45% (typical)		
Rise & Fall time	10nS max. at +5.0Vdc (+0.5Vdc to +4.5Vdc)		
	5nS max. at +3.3Vdc (+0.4Vdc to +2.4Vdc)		
Start up time	10mS max. (at +5.0Vdc)		
	5mS max. (at +3.3Vdc)		
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
Seal integrity	MIL-STD-883C, Method 1014, Condition C & A2
Marking	MIL-STD-202F, Method 215

PART NUMBERING GUIDE

S B X O 20 C A T 3

- Sbtron** (S)
- Oscillator** (B)
- Model No.** (X)
- Frequency stability** (O)
- Temperature range** (20)
- Pin #1 function** (C)
- Input voltage** (A)
- Pin #1 function** (T)
- Input voltage** (3)

Input voltage
 3 = 3.3Volt
 5 = 5.0Volt

Pin #1 function
 T = Tri-state (Typical)
 Blank = No connect

Temperature range
 A = 0 °C ~ 70 °C
 B = -20 °C ~ 70 °C
 C = -30 °C ~ 80 °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.*



