OSCILLATOR
SBXO - 27

ULTRA SMALL OSCILLATOR

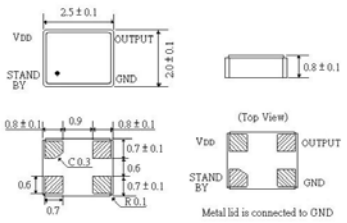
2.5mm X 2.0mm X 0.8mm(H)

PICTURE AREA

APPLICATIONS

- ►Mobile system
- ►CCD module
- ►Notebook
- ►PDA

OUTLINE DIMENSIONS



ELECTRICAL SPECIFICATIONS

Frequency range	2.000MHz to 55.000MHz		
Frequency stability	±25ppm	±50ppm	±100ppm
	Inclusive of operating temperature		
Operating temperature range	-10 °C ~ 70 °C Typical		
Storage temperature range	–55 °C ~ 125 °C		
Input voltage	+3.3Vdc ±0.3V	+5.0Vdc ±0.5V	
Input current	30mA 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)		
	7mS 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 2 7 C A T 3

Sbtron

Oscillator

Model No.

Frequency stability
A = ± 25 ppm
B = ± 50 ppm
C = ±100 ppm
D = Customize

Input voltage
3 = 3.3Volt
5 = 5.0Volt

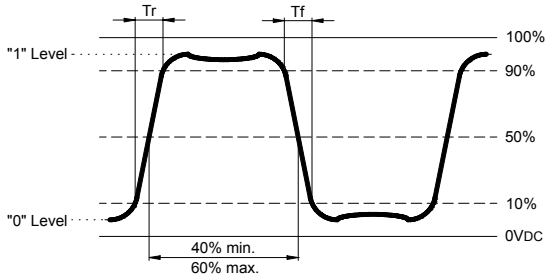
Pin #1 function
T = Tri-state (Typical)
Blank = No connect

Temperature range
A = 0 °C ~ 70 °C
B = –20 °C ~ 70 °C
C = –30 °C ~ 80 °C
D = Customize

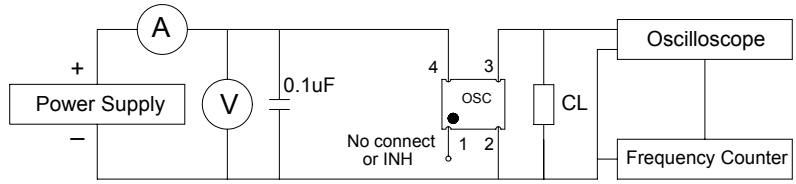
Standard specifications for product indicated in BLUE character

Specifications subjects to change without notice & If you need other specifications, Contact our factory.

WAVE FORM



TEST CIRCUIT



NOTES : (1) CL ... 15pF INCLUDES ALL STRAY AND SCOPE/FREQ.CTR. LOADING CAPACITANCE

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