VCXO
SBVX - 15

CERAMIC SMD VCXO

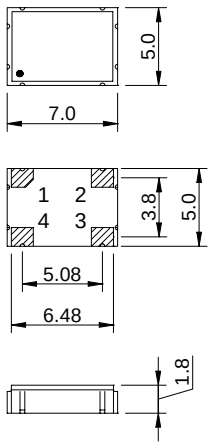
7mm X 5mm X 1.8mm(H)

PICTURE AREA

APPLICATIONS

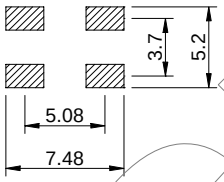
- ►**Suppress jitter**
- ►**Set top box**
- ►**PLL circuit**
- ►**Potable equipment**

OUTLINE DIMENSIONS



Pin No.	Function
1	Voltage control
2	GND
3	Frequency output
4	Vcc

< PAD LAYOUT >



ELECTRICAL SPECIFICATIONS

Frequency range	1.000MHz 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	40mA max.	55mA max.	
"0" / "1" level	+0.4V max. / +2.4V min.	+0.5V max. / +4.5V min.	
Duty ratio	60/40% or 40/60% (typical)		
Pulling range	±100ppm min. (at +1.65Vdc ±1.35V)		
Linearity	10% max.		
Rise & Fall time	5nS max. at +3.3Vdc (+0.4Vdc to +2.4Vdc)		
Start up time	5mS max. (at +3.3Vdc)		
Fan out	15pF		
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 V X 1 5 B A 3

Sbtron

VCXO

Model No.

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

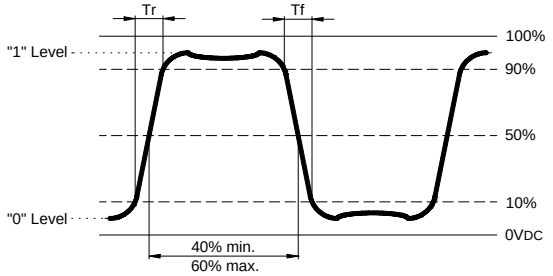
Input voltage
3 = 3.3Volt
5 = 5.0Volt

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

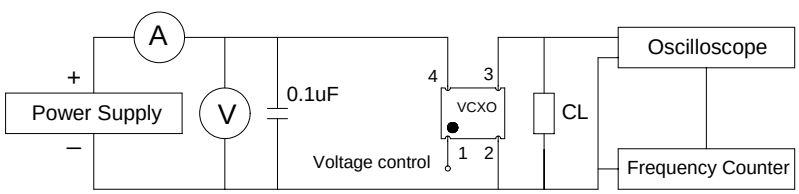
Standard specifications for product indicated in BLUE character

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/CTR. LOADING CAPACITANCE

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