

# OSCILLATOR SBXO - 20

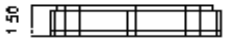
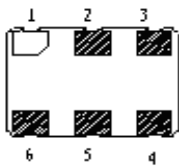
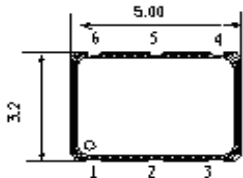
## APPLICATIONS

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

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

PICTURE  
AREA

### OUTLINE DIMENSIONS



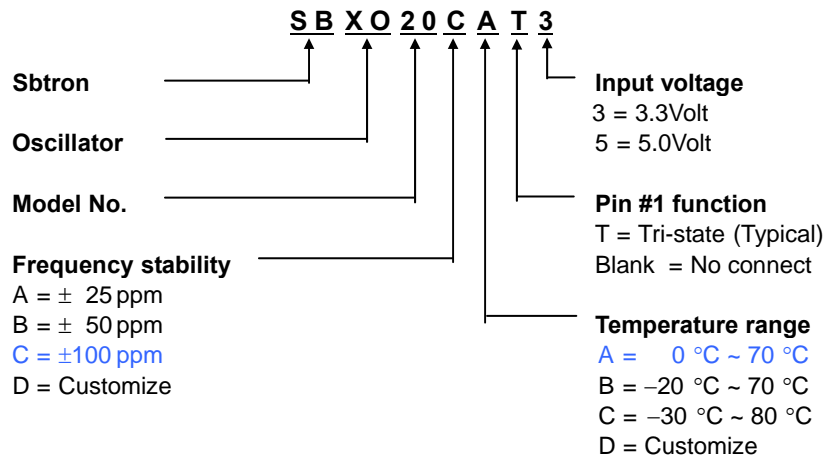
### ELECTRICAL SPECIFICATIONS

Frequency range	1.500MHz to 80.000MHz		
Frequency stability	±25ppm	±50ppm	±100ppm
	Inclusive of operating temperature		
Operating temperature range	0 °C ~ 70 °C (Optional)		
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

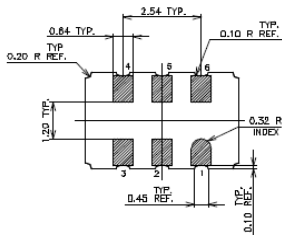
### PART NUMBERING GUIDE



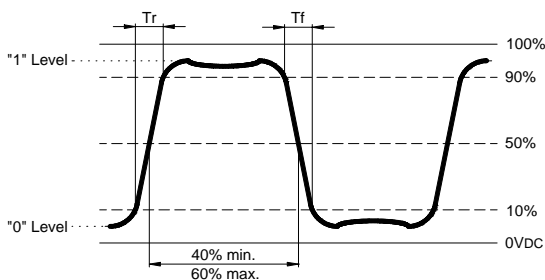
Standard specifications for product indicated in **BLUE** character

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

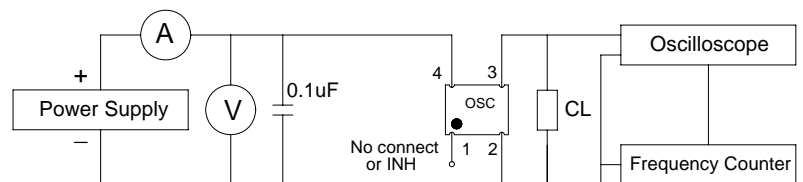
Pin No.	Function
#1	Control Voltage
#2	N/C
#3	GND
#4	Output
#5	N/C
#6	Supply Voltage



### WAVE FORM



### TEST CIRCUIT



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

