

TCXO SBTO - 22

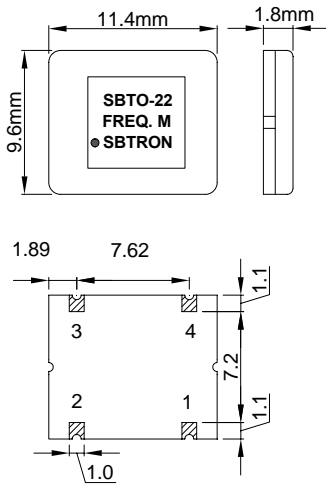
HCMOS OUTPUT
11.4 X 9.6 X 1.8(H)

PICTURE
AREA

APPLICATIONS

- ▶ STRATUM levels specified by ANSI.
- ▶ Repeater / Communication system
- ▶ Transmission equipment
- ▶ RF module

OUTLINE DIMENSIONS



< Bottom View >

Pin	Function
1	Vcont. or no connect
2	GND
3	Frequency output
4	Vcc

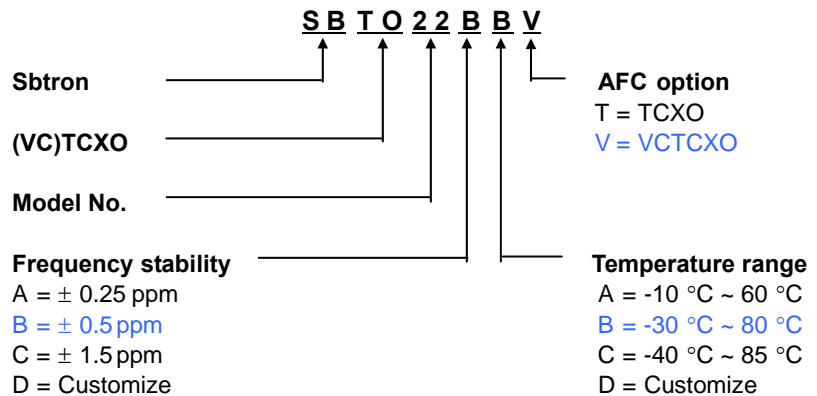
ELECTRICAL SPECIFICATIONS

Frequency range	10.000MHz to 100.000MHz		
Frequency stability	± 0.25 ppm	± 0.5 ppm	± 1.5 ppm
	-10 °C ~ 60 °C	-30 °C ~ 80 °C	-40 °C ~ 85 °C
Storage temperature range	-40 °C ~ 90 °C		
Input voltage	+3.3Vdc $\pm 5\%$		
Input current	10mA max.		
Output wave form	HCMOS		
Output level	"0" level: +0.3Vmax. / "1" level: +2.7V min.		
Duty ratio	45/55% or 55/45% (at 1/2 Vdd)		
Rise & Fall time	5nS/5nS max.		
Input voltage stability	± 0.2 ppm max. (at +3.3Vdc $\pm 5\%$)		
Initial tolerance	± 0.5 ppm max. (at 25°C $\pm 2^\circ$ C)		
Load vs. frequency stability	± 0.2 ppm max. (at 10K Ω // 10pF $\pm 5\%$)		
Aging (at 25 °C)	± 1.0 ppm max. / year		
AFC characteristic (option)	± 5.0 ppm min. (at +1.5Vdc ± 1.0 V)		
Load	10K Ω // 10pF		
Linearity	$\pm 10\%$ max.		
Polarity	Positive		
Phase noise (Fs: 24.5535MHz & 25°C $\pm 2^\circ$ C)	-83dBc/Hz @ 10Hz	-130dBc/Hz @ 1KHz	
	-110dBc/Hz @ 100Hz	-145dBc/Hz @ 10KHz	

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

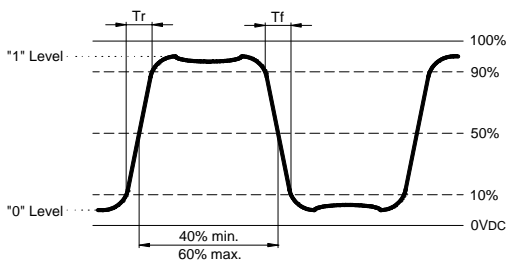
PART NUMBERING GUIDE



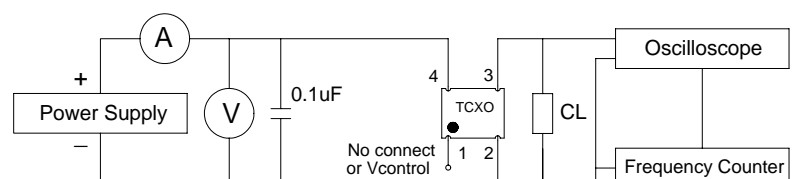
Standard specifications for product indicated in **BLUE** character

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

WAVE FORM



TEST CIRCUIT



NOTES : (1) CL ... 10pF INCLUDES ALL STRAY AND SCOPE/CTR. LOADING CAPACITANCE