OSCILLATOR
SBXO - 23

LVDS OSCILLATOR

DIP PACKAGE

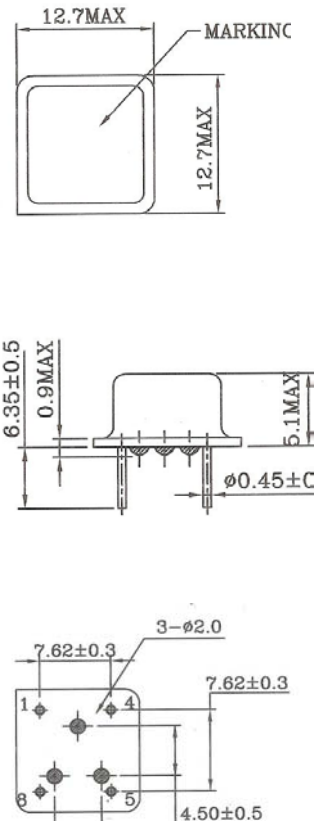
PICTURE AREA

APPLICATIONS

- ►Differential signaling
- ►SONET
- ►Repeater
- ►OC series / STM1

OUTLINE DIMENSIONS

< HALF SIZE / 8PIN DIP >



Pin no.	Configuration
# 1	N.C or EN/ DIS(tri –stat)
# 4	GND
# 5	Output
# 8	Vcc

ELECTRICAL SPECIFICATIONS

Frequency range	700KHz to 800.000MHz		
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		
Input current	70mA max.		
"0" level	0.90V_{DC} max.		
"1" level	1.60V_{DC} min.		
Duty ratio	55/45% or 45/55% (at 1.25V_{DC})		
Rise & Fall time	1nS max. (at RL = 100Ω, CL = 10pF)		
Period jitter	9pS max. (In case of 155.520MHz)		
Phase noise relative to carrier (In case of 155.520MHz)	@ 10Hz : -65dBc/Hz @100Hz : -95dBc/Hz @ 1KHz : -114dBc/Hz	@ 10KHz : -128dBc/Hz @100KHz : -125dBc/Hz	
Load drive capability	50Ω		
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 3 A B H

Sbtron

Oscillator

Model No.

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

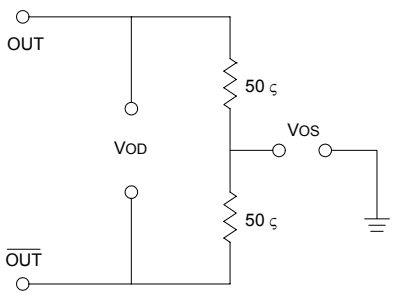
Package type
H = Half size / 8 Pin DIP
F = Full size / 14 Pin DIP

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

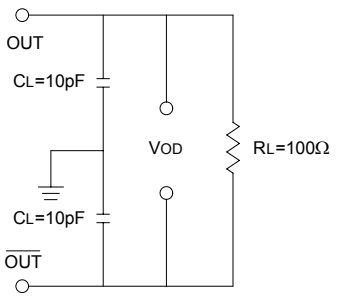
Standard specifications for product indicated in BLUE character

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

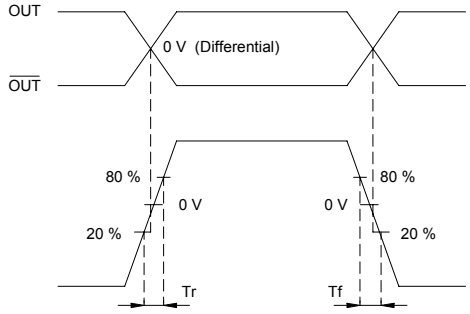
LVDS LEVELS TEST CIRCUIT



LVDS SWITCHING TEST CIRCUIT



LVDS TRANSISTION TIME



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