



VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

VCXO-1500, 1525,1600 &1625

FEATURE

- All metal welded package
- Wide frequency range from 1 MHz upto 120 MHz
- HCMOS in general application
- RoHS Compliant Standard

Table 1

Codes	Stability Codes	D	E	F	G	M	K
	Frequency stability range	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±50 PPM	±100 PPM
A	0 to +50° C						
B	0 to +60° C						
F	0 to +70° C						
D	-10 to +60° C						
E	-10 to +70° C						
C	-20 to +70° C						
G	-30 to +80° C						
H	-30 to +85° C						
I	-40 to +85° C						

Denotes Available Denotes not Available

Table 2

Supply Voltage	5V	3.3V
Series	Vcxo -1600 Vcxo -1500	Vcxo -1625 Vcxo -1525

MECHANICAL SPECIFICATIONS

	Full Size	Half Size
Top View		
Front View		
Bottom View		

Note: Sharp edge indicates Pin 1. ▲ All dimensions are in mm.

Pin Configuration for Full Size

- 1 : Control Voltage
- 7 : Ground
- 8 : Output
- 14 : DC Input

Pin Configuration for Half Size

- 1 : Control Voltage
- 4 : Ground
- 5 : Output
- 8 : DC Input

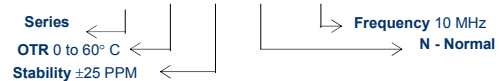
Parameters	HCMOS/TTL Compatible
Series:	■ Vcxo-1600, Vcxo-1625 (Full Size) Vcxo-1500, Vcxo-1525 (Half Size)
Frequency Range:	■ 1 MHz – 120 MHz
Output Drive:	■ 50 pF max.
Logic Levels:	■ '0' = 10% of Vcc max. '1' = 90% of Vcc min.
Rise / Fall time:	■ 10 ns max. (Between Logic 0 & Logic 1 Level)
Start up time:	■ 10 ms max
Waveform Symmetry:	■ 40 to 60 % @ ½ Vcc
Output Waveform:	■ Square Wave
Frequency Stability:	□ (Table 1)
Temperature Range:	□ (Table 1)
Supply Voltage (Vcc):	■ (Table 2) +5.0V DC (±10%) +3.3V DC (±10%)
Input Current: For 5 Volts	■ 30 mA max (1 MHz – 24 MHz) 40 mA max (24 MHz – 50 MHz) 50 mA max (50 MHz – 80 MHz) 80 mA Max (80MHz –120 MHz)
Input Current: For 3.3 Volts	■ 15 mA max (1 MHz - 24 MHz) 20 mA max (24 MHz - 50 MHz) 25 mA max (50 MHz - 80 MHz) 40 mA max (80 MHz -120 MHz)
Nominal Control Voltage:	■ 2.5V DC (operating on 5V) 1.65V DC (operating on 3.3V)
Control Voltage Range:	■ 0 to 5.0V DC 0 to 3.3V DC
Pulling Range:	■ ± 100 ppm min
Transfer Function:	■ Positive
Setability for center frequency@ 25°C nominal:	■ 2V min & 3V max. (Vcxo-1600 & Vcxo-1500) 1.25V min & 2.05V max. (Vcxo-1625 & Vcxo-1525)
Storage Temperature Range:	■ -55 to +125° C
Linearity:	■ 10% max.
Ageing:	■ ± 5 ppm per year max.

■ Standard, □ Optional – please specify required code(s) when ordering.

Ordering Information

Example

VCXO 1600 B G N 10M0000



Specifications subject to change without notice
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