



actual size

Oscillator · VX3 · 5.0V

Surface Mount Crystal Oscillator

Features

- HCMOS / TTL compatible type
- tristate function
- full ceramic package

General Data

type	VX3 low load	VX3 heavy load
frequency range	0.5 ~ 80.0 MHz	0.5 ~ 80.0 MHz
frequency stability over all (inclusive stability at 25°C, operating temp. range, input voltage change, aging, shock, vibration)	± 100 ppm: VX3E	± 100 ppm: VX3X
	± 50 ppm: VX3F	± 50 ppm: VX3Y
	± 30 ppm: VX3FS	± 30 ppm: VX3YS
	± 25 ppm: VX3EQ	± 25 ppm: VX3XQ
	± 20 ppm: VX3EP	± 20 ppm: VX3XP
current consumption max. (special data on request)	10 mA: 0.5 ~ 29.9 MHz	20 mA: 0.5 ~ 19.9 MHz
	15 mA: 30.000 ~ 34.9 MHz	35 mA: 20.000 ~ 49.9 MHz
	30 mA: 35.000 ~ 65.9 MHz	60 mA: 50.000 ~ 80.0 MHz
	50 mA: 66.000 ~ 80.0 MHz	
upply voltage	5.0 V ± 10 %	5.0 V ± 10 %
rise & fall time max.	6 ns	6 ns
output load	15 pF	50 pF
output current I_{OH} max.	-16 mA	-16 mA
I_{OL} min.	16 mA	16 mA
output low level	$V_{DC} \times 0.1$	$V_{DC} \times 0.1$
output high level	$V_{DC} \times 0.9$	$V_{DC} \times 0.9$
operating temperature	-10 °C ~ +70 °C / -40 °C ~ +85 °C	-10 °C ~ +70 °C / -40 °C ~ +85 °C
storage temperature	-55 °C ~ +125 °C	-55 °C ~ +125 °C
symmetry at 1/2 V_{DC}	45 / 55 % typical	45 / 55 % typical
RMS jitter	< 10 ps	< 10 ps

Preferred Type

VX3X: ± 100 ppm / 50 pF
VX3E: ± 100 ppm / 15 pF

Marking

type / frequency in MHz
company code / date code

date code: year/month
example: 2A = 2002 January

Jan.	Febr.	Mar.	Apr.	May	June
A	B	C	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	H	J	K	L	M

Enable / Disable Function

pin #1	pin #3
open or high	oscillation
gnd or low	high impedance
e/d delay time: 100 ns max.	

Order Information



