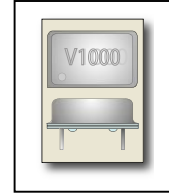


V1000



Voltage Controlled Crystal Oscillator

FEATURES:

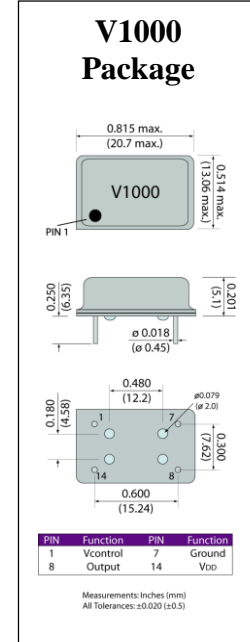
Metal Can
Thru-Hole Package

Full DIP
20.7 x 13.06 x 5.1mm

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1	200
Frequency Stability		See Table	
Storage Temperature Range	°C	-55	125
Supply Voltage	V	3.3, 5.0 ±5%	
Current Consumption		See Table	
Output Waveform		CMOS	
Output Load	pF	-	15
Output Voltage Logic High (V _{OH})	V	90% of V _{DD}	
Output Voltage Logic Low (V _{OL})	V	-	10% of V _{DD}
Transition Time (Rise and Fall)		-	5
Duty Cycle		45/55%	
Frequency Deviation	ppm	±100	-
Control Voltage	V	See Note	
Start-up Time	mSec	-	10
Period Jitter: pk-pk	pSec	-	100
Period Jitter: One Sigma	pSec	-	25

Frequency Stability is inclusive of Operating Temperature Range, Supply Voltage, Current, Aging, and Load.

Control Voltage: 1.65±1.35V for 3.3; 2.5 ±2.0V for 5.0V.



Frequency Stability

Temperature	Stability (ppm)
-10 to 60°C	±10, ±15, ±25, ±30, ±50
-20 to 70°C	±10, ±15, ±25, ±30, ±50
-40 to 85°C	±10, ±15, ±25, ±30, ±50

Current Consumption

Frequency	Unit	3.3 V	5.0 V
1.00 to 20.00 MHz	mA	17	26
>20.00 to 40.00 MHz	mA	25	40
>40.00 to 80.00 MHz	mA	35	60
>80.00 to 125.00 MHz	mA	45	70
>125.00 to 200.00 MHz	mA	65	80

Environmental

Terminal Material	KOVAR
Terminal Plating	Sn/Ag/Cu
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1

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Example Part Number: V500-18-A-27-24M576

V500	-	[]	-	[]	-	[]	-	[]
		1		2		3		4
		Voltage		Stability		Temp. Range		Frequency
		50= 5.0 V		A= ±50		16= -10 to 60°C		Frequency in MHz
		33= 3.3V		B= ±30		27= -20 to 70°C		i.e. 24M576
				C= ±25		48= -40 to 85°C		use M for decimal point
				D= ±15				
				E= ±10				