

PRODUKT-INFO

VXO-81 • VXO-83

Voltage Controlled Crystal Oscillators

FEATURES

1. 8 Pin half size.
2. Industry standard.
3. Wide frequency range.
4. Low cost.
5. Resistance weld package.
6. 5.0V and 3.3V available.

APPLICATION

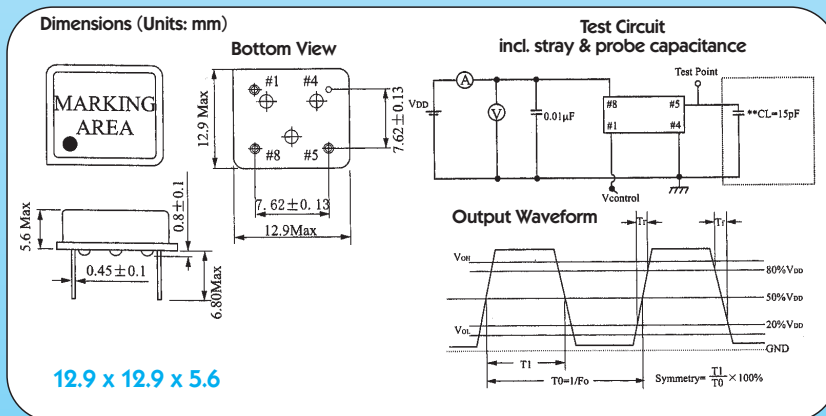
Phase locked loops, phase shift keying, in telecommunication applications as ADSL, cable modem etc.



Actual Size

ELECTRICAL SPECIFICATIONS			
Model	Condition	VXO-81	VXO-83
Frequency Range		1.0 MHz ~ 40.0 MHz	
Frequency Stability	All Conditions*	±15 ppm	
Temperature Stability	over T_{Osc}	±15 ppm / ±25 ppm / ±50 ppm	
Stability vs Power Change	$V_{\text{DD}} \pm 5\%$	±5 ppm	
Stability vs Load Change	15 pF ±10%	±3 ppm	
Pullability	Over Control Voltage Range	±50, ±100, ±200 ppm	±50, ±100, ±150 ppm
Control Voltage Range		0.5V ~ 4.5V	0V ~ 3.3V
Operating Temperature Range		0°C to +70°C, -40°C to +85°C option	
Storage Temperature Range		-55°C to +125°C	
Supply Voltage		5.0V±5%	3.3V±5%
Supply Current	1.0 MHz ~ 23.999 MHz	15 mA max.	10 mA max.
	24.0 MHz ~ 40.0 MHz	25 mA max.	20 mA max.
Output Symmetry	at $1/2 V_{\text{DD}}$	40% ~ 60%, 45% ~ 55% option	
Rise Time	20% V_{DD} ~ 80% V_{DD}	8 ns max.	10 ns max.
Fall Time	80% V_{DD} ~ 20% V_{DD}	8 ns max.	10 ns max.
Output Voltage	V_{OH} V_{OL}	90% V_{DD} min. 10% V_{DD} max	
Output Load		15pF max.	
Start Time		10 ms max.	
Aging (at +25°C) first year	at +25°C ±3°C	±5 ppm / year max.	

OPTIONS: 0,01 uF bypass capacitor should be placed between V_{DD} (pin 4) and GND (pin 2) to minimize power supply line noise.
* Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.



Terminal	Connection
#1	V Control
#4	GND
#5	OUTPUT
#8	V_{DD}

Crystals...
and more

Now available



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All specifications subject to change without notice.