Oven Controlled Crystal Oscillator

OCXO 2525

Features

- Ultra Stable
- Wide Temperature Range
- Fast Warming-up

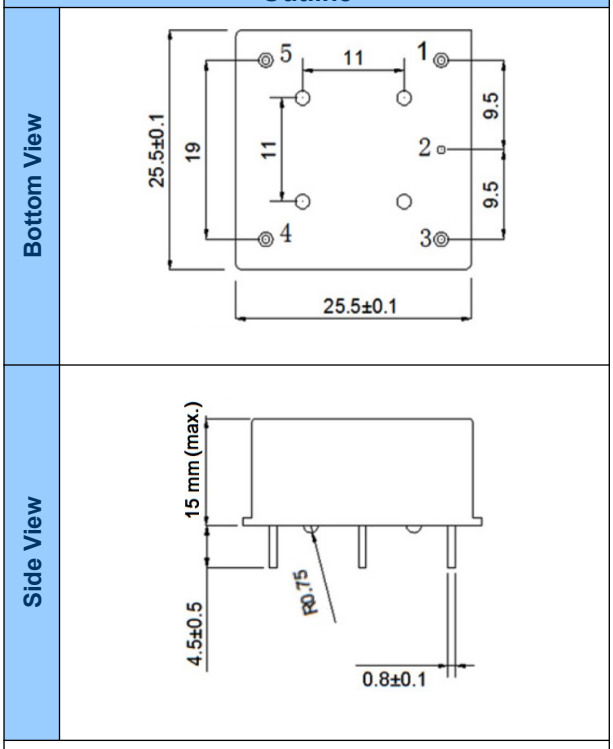
Specifications			Option Codes
Frequency Range:		10 MHz ~ 60 MHz	
Sine Wave	**Output Level:**	+7 dBm (min.)	S
	Load:	50 Ω ±5%	
	Harmonics:	-35 dBc (max.)	
	Spurious:	-70 dBc (max.)	
HCMOS	**V_{High}:**	2.4 V (min.)	H
	V_{Low}:	0.4 V (max.)	
	Duty Cycle:	45% to 55%	
	Rise/ Fall Time:	6 ns (max.)	
	Load:	15 pF ±5%	
Frequency Tolerance @ 25°C:		±0.1 ppm (max.)	
Operating Temperature Range (OTR):		Select from Table 1	
Temperature Stability:		Select from Table 1	
Supply Voltage, Vdd:		+3.3 V ± 5% +5 V ± 5% +12 V ± 5%	3 5 C
Supply Voltage Stability:		± 5 ppb (max.)	
Load Stability:		± 5 ppb (max.)	
Short-term Stability (1S):		5×10^{-12} (max.)	
Power consumption @ 25°C:		3.6 Watts (max.) during warm-up 1.2 Watts (max.) at steady-state	
Warm-up Time @ 25°C:		10 minutes (max.) to reach within ±5 ppb	
Frequency Adjustment Option:		External Control Voltage None (Fixed Frequency)	V N
Control Voltage Range:		1.5 V ± 1.5 V (for +3.3V) 2.5 V ± 2.5 V (for +5V and +12V)	
Frequency Tuning Range:		± 0.5 ppm (min.)	
Frequency Tuning Slope:		Positive	
Aging @ 25°C:		±0.5 ppb (max.) per Day ±50 ppb (max.) per Year (After 30 days of continuous operation)	
Storage Temperature Range:		-55°C to +125°C	

Andhra Electronics Pvt. Ltd.
Plot no.34 & 35, IDA,
Kakinada-533 005
Andhra Pradesh, India
URL: www.andhraelec.com

Phone: +91 884 234 2203
Fax: +91 884 234 1145
e-mail: info@andhraelec.com

Mechanical Specifications

Outline



▲ All dimensions are in mm. Tolerance is ± 0.1 mm, unless otherwise specified.

Table 1

OTR Codes	Stability Codes		010	020	050	W
	Temperature Stability		± 10 ppb	± 20 ppb	± 50 ppb	± 100 ppb
C	Operating Temperature Range	-20°C to +70°C				
I5		-40°C to +70°C				
I		-40°C to +85°C				
K1		-55°C to +85°C				

Denotes Available Denotes not Available

Typical SSB Phase Noise @ 10 MHz

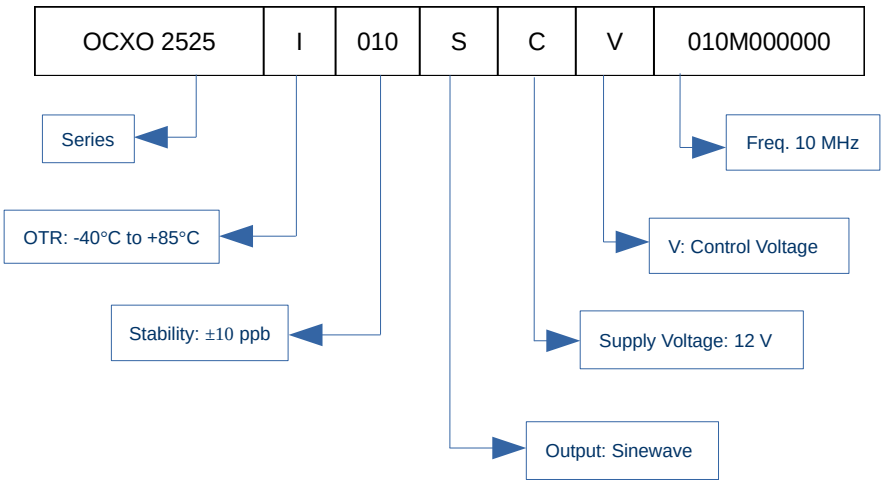
10 Hz Offset	-120 dBc/ Hz
100 Hz Offset	-140 dBc/ Hz
1 KHz Offset	-160 dBc/ Hz
10 KHz Offset	-165 dBc/ Hz
100 KHz Offset	-165 dBc/ Hz

Pin Configuration:

Pin	Option N	Option V
1	Output	Output
2	Ground	Ground
3	No Connection	Control Voltage
4	No Connection/ Voltage Reference	No Connection/ Voltage Reference
5	Supply Voltage	Supply Voltage

Ordering Information

Example



Specifications subject to change without prior notice

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Note: Not all combination of options are available. Other specifications may be available upon request.

Andhra Electronics Pvt. Ltd.
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