XO5040 Series

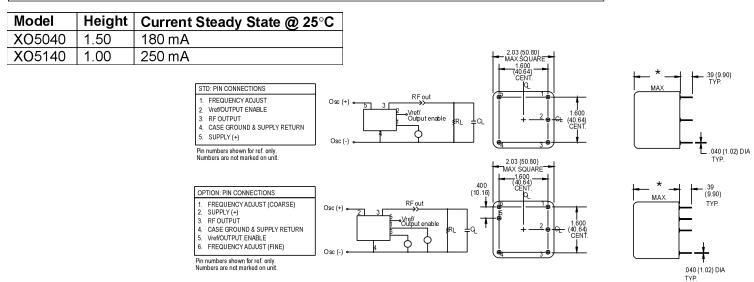
2x2 inch, 15.0 Volt, HCMOS/Sinewave, DOCXO



- Double oven OCXO with exceptional stability
- · An ultra low aging, SC-cut resonator

Model XO5040 and X0514X	Frequency (MHz)	Temperature Range (°C)	Temperature Stability (referenced to 35°C)	Aging Over 1 year	Supply Voltage
SC-Cut	10	0 to +70	±2 x 10 ⁻¹⁰	±1.0 x 10 ⁻⁸	+15 Vdc ±5%
AT-Cut	10	0 to +70	±5.0 x 10 ⁻¹⁰	±3.0 x 10 ⁻⁸	+15 Vdc ±5%
Options	5 to 15	Consult Factory			+12 Vdc ±5%

Additional Specifications	SC-Cut			AT-Cut		
Aging per day	±2.0 x 10 ⁻¹⁰			±5.0 x 10 ⁻¹⁰		
Current*	*250/180 mA max @ 25°C steady state			*250/180 mA max @ 25°C steady state		
	750 mA max	@ Turn on, all t	emps	750 mA max @ Turn on, all temps		
Start-up time	5 sec max		·	5 sec max		
Warm-up time @ 0°C	Freq. Within ±3.5 x 10 ⁻⁸ in 20 min max			Freq. Within ±5.0 x 10 ⁻⁸ in 20 min max		
Electronic frequency control						
Input impedance	>30 k Ω			>30 k Ω		
Tuning voltage range	0 – 10 V			0 – 10 V		
Center frequency voltage				5 ±0.5 V		
Frequency tuning range	±0.25 to ±0.5 x 10 ⁻⁶			±0.5 to ±1.0 x 10 ⁻⁶		
Short term stability	1.0 x 10 ⁻¹¹ /sec			2x10 ⁻¹¹ /sec		
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Phase Noise @	5MHz	10MHz	15MHz	10MHz		
1Hz	-100 dbc/Hz	-90 dbc/Hz	-80 dbc/Hz	-80 dbc/Hz		
10 Hz	-120 dbc/Hz	-120 dbc/Hz	-120 dbc/Hz	-115 dbc/Hz		
100 Hz	-140 dbc/Hz	-140 dbc/Hz	-130 dbc/Hz	-135 dbc/Hz		
1 kHz	-145 dbc/Hz	-145 dbc/Hz	-135 dbc/Hz	-145 dbc/Hz		
10 kHz	-145 dbc/Hz	-150 dbc/Hz	-140 dbc/Hz	-145 dbc/Hz		
Sinewave Version						
Spurious & subharmonics	<-40 dBc	<-85 dBc	<-45 dBc	<-85 dBc		
Harmonics	<-30 dBc	<-40 dBc	<-30 dBc	<-40 dBc		
Output level into 50 Ω	+7 ±2 dBm	+7 ±2 dBm	+12 ±1 dBm	+7 ±1 dBm		
HCMOS Version						
Duty cycle	40/60					
Load	2 Gates			*See Table	э	



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