

Helping Customers Innovate, Improve & Grow



Features

- Low Phase Noise
- High Stability
- SC-Cut Crystal Standard
- Frequency : 10 MHz

Applications

- Test Equipment
- Frequency Synthesizers
- Position Location
- Satellite Communications

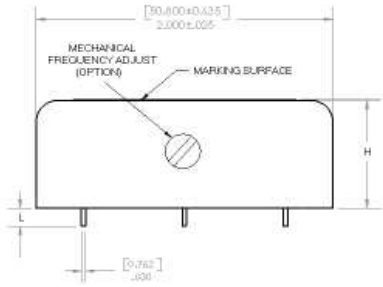
Performance Specifications

Parameter	Min	Typ	Max	Units	Condition
Frequency Stabilities¹					
vs. operating temperature range (referenced to +25°C)	-3 -5 -10		+3 +5 +10	ppb ppb ppb	0... +70°C -20... +70°C -40... +70°C
Initial Tolerance	-10		+10	ppb	at time of shipment, nominal EFC
vs. supply voltage change	-0.5		+0.5	ppb	Vs ± 5%
vs. load change	-0.5		+0.5	ppb	Load ± 5%
vs. aging / daily	-0.1		+0.1	ppb	after 72 hours of operation
vs. aging / 1 year	-25		+25	ppb	after 72 hours of operation
vs. aging / year (following years)	-10		+10	ppb	
Warm-up Time			5	minutes	to ± 10ppb of final frequency (1 hour reading) @ +25°C
Supply Voltage (Vs)					
Supply voltage (Standard)	11.4	12.0	12.6	VDC	
Supply voltage (Option)	14.25	15.0	15.75	VDC	
Power Consumption			9.0 2.0	Watts Watts	during warm-up steady state @ +25°C

Performance Specifications

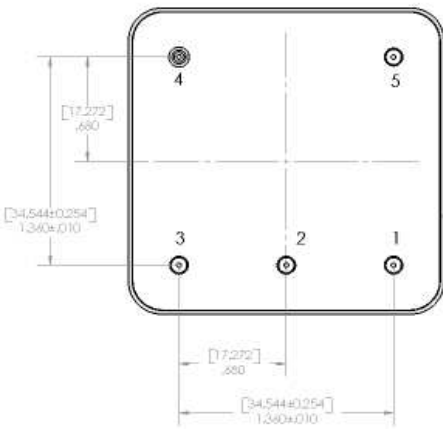
Parameter	Min	Typ	Max	Units	Condition
RF Output					
Signal	Sinewave				
Load		50		ohm	
Output Power	+8.0	+10.0	+12.0	dBm	50 ohm load
Harmonics			-30	dBc	50 ohm load
	Mechanical Trim				
	±0.2	±0.3	±0.5	ppm	
Frequency Tuning (EFC)					
Tuning Range	±0.10	±0.2	±0.35	ppm	
Linearity			15	%	
Tuning Slope	Positive				
Control Voltage Range	0.0	+2.0	+4.0	VDC	
Additional Parameters¹					
Phase Noise @10 MHZ		-113	-110	dBc/Hz	1 Hz
		-142	-140	dBc/Hz	10 Hz
		-157	-155	dBc/Hz	100 Hz
		-160	-158	dBc/Hz	1 KHz
		-165	-163	dBc/Hz	10 KHz
		-165	-163	dBc/Hz	100 KHz
Weight			100	g	
Absolute Maximum Ratings					
Supply voltage (Vs)			18	V	
Output Load			25	ohm	
Operable temperature range	-55		+85	°C	
Storage temperature range	-55		+125	°C	
Shock					MIL-STD-202, Method 213, Condition J, 30 G, 11ms
Vibration					MIL-STD-202, Method 201 and Method 204, Condition A except 5 G to 500 Hz, 1 sweep
Seal					MIL-STD-202, Method 112, Condition D

Outline Drawing / Enclosure



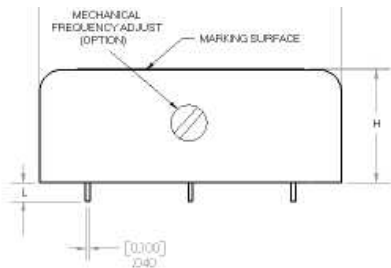
Dimensions in [mm] inches

Type A		
Code	Height "H"	Pin Length "L"
0	26.42	6.35



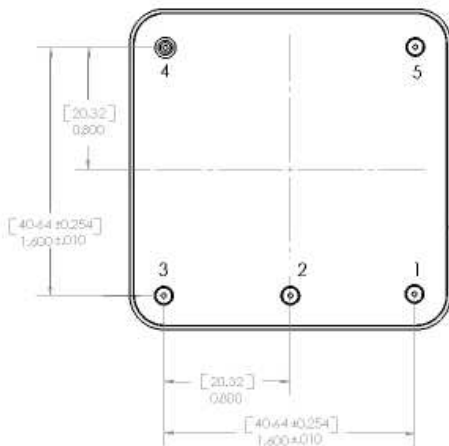
Pin Connections

1	Electronic Frequency Control (EFC) or N/C
2	No Connect
3	RF Output
4	Ground (Case)
5	Supply Voltage Vs



Dimensions in [mm] inches

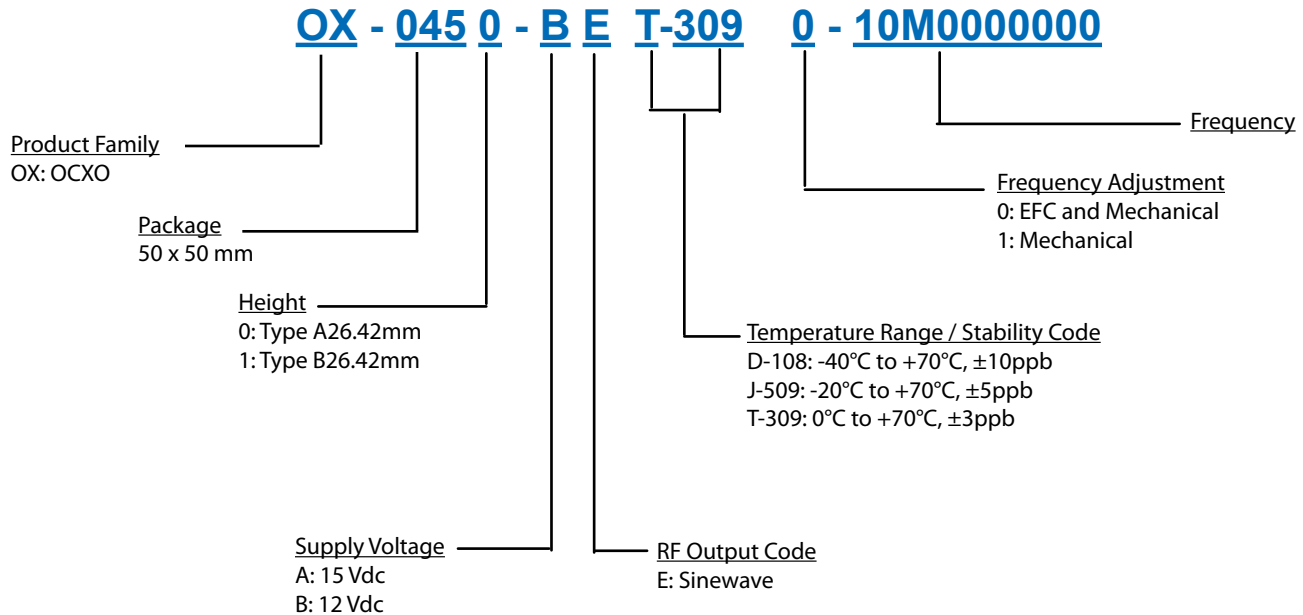
Type B		
Code	Height "H"	Pin Length "L"
1	26.42	6.35



Pin Connections

1	Electronic Frequency Control (EFC) or N/C
2	No Connect
3	RF Output
4	Ground (Case)
5	Supply Voltage Input (Vs)

Ordering Information



Notes:

1. Contact factory for improved stabilities or additional product options.
2. Unless other stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C).
3. Subject to technical modification.

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