

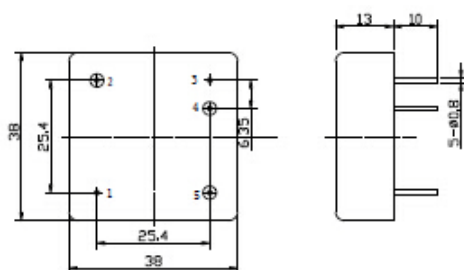
# 638A

## Low phase noise OCXO

### Technical Specifications

<b>Standard Frequency</b>	10 MHz		
<b>Phase Noise (dBc/Hz)</b>	<b>Option: S</b>	<b>Option: L</b>	<b>Option: U</b>
1 Hz	-90	-110	-100
10 Hz	-125	-138	-130
100 Hz	-145	-155	-160
1 KHz	-150	-158	-170
10 KHz	-153	-160	-173
100 KHz	-155	-160	-175
<b>Aging</b> (after 30 days of continuous operation)	$\leq 5 \times 10^{-8}$ / year		
<b>Input voltage range</b>	12 VDC $\pm$ 5%		
Warm up time (at 25°C to $5 \times 10^{-7}$ )	$\leq 5$ min		
<b>Output specifications</b>			
Output Wave form	Sine wave		
Frequency stability vs Temperature (-40°C to 70°C)	$\leq 1 \times 10^{-8}$		
Frequency stability vs Voltage	$\leq \pm 5 \times 10^{-8}$		
Frequency stability vs Load	$\leq \pm 5 \times 10^{-8}$		
Harmonics	$\leq -30$ dBc		
Spurious	$\leq -80$ dBc		
Load	50 $\Omega$		
Level	7 $\pm$ 2 dBm		
Storage Temperature Range	-40°C to 85°C		
Vibration	MIL-STD-202G		
<b>Frequency control</b>	0 ~ 5Volts		
<b>Size (L×W×H)</b>	38.1×38.1×13 mm		

### Outline drawing and Electrical connections (mm)



1. Ground
2. Control voltage
3. Ground
4. RF output
5. Voltage supply

**Ordering Information:** 638A-xx-xx

Example: 638A-U-10MHz