

ASVTO Series VCTCXO

Voltage Controlled Temperature Controlled Crystal Oscillator

Applications:

- CDMA
- GSM
- GPS

FEATURES

- Miniature SMD Package
- Good Phase Noise Response
- Good Frequency Stability
- RoHS Compliant

SPECIFICATION

MODEL		ASVTO
Dimension	mm	3.2x2.5 or 5.0x3.2
Nominal Frequency	MHz	13MHz, 26MHz or customer request
Frequency Tolerance (Vcon=1.5V)	ppm	$\pm 2.0\text{ppm max @}25^{\circ}\text{C} \pm 3^{\circ}\text{C}$
Frequency Stability		
Over Temperature Range		$\pm 2.0\text{ppm}$
Over Supply Voltage Change ($\pm 5\%$)		$\pm 0.2\text{ppm}$
Over Load Change ($\pm 10\%$)		$\pm 0.2\text{ppm}$
Temperature Range		
Operating Temp	$^{\circ}\text{C}$	-10 to +70
Storage Temp	$^{\circ}\text{C}$	-40 to +85
Power Supply Voltage, Vdd	VDC	+2.7V or +2.8V
Vcon Frequency Control Range ($1.5 \pm 1.0\text{V}$)		$\pm 9 \sim \pm 16 \text{ ppm/V}$
Start up Time (90% of final RF level in Vp-p)		3.0 msec max.
Harmonics		-7.0 dBc max
SSB Phase Noise (@1KHz Carrier Offset)		-130 dBc/Hz max
Aging (per year at 25°C)	ppm/Year	$\pm 1.0\text{ppm}$

DIMENSION (mm)

3.2 x 2.5

PIN	PIN CONNECT
1	Vt
2	GND/CASE GND
3	Fout
4	Vdd

5.0 x 3.2

PIN	PIN CONNECT
1	Vt
2	Floating
3	Floating
4	GND/CASE GND
5	Fout
6	Floating
7	Floating
8	Vdd

Recommended Circuit

MARKING RULE

