

**AS9100 / ISO9001 Certified**

**HIGH FREQUENCY TCXO**

## Features

- RoHS Compliant, Tight Stability over Wide Temperature Range
- High Frequency Based on 3rd O/T Crystals
- Sinewave Output, Low Phase Noise
- Industry de factor Standard SMD Footprint, Frequency Adjustment Through Internal Trimmer

## Specifications

Frequency Range	45 MHz to 190 MHz
Input Voltage (Vcc)	3.3 V $\pm 5\%$ ; 5.0 V $\pm 5\%$ ;
Input Current	30 mA Maximum
Frequency Stability vs Temperature	$\pm 0.5$ ppm; $\pm 1$ ppm; $\pm 1.5$ ppm; $\pm 2$ ppm; $\pm 5$ ppm
Temperature Range	0°C to 70°C; -40°C to 85°C; 0°C to 50°C; 30°C to 75°C
Standard Stability	$\pm 2.5$ ppm / -30°C to 75°C
Frequency vs. Voltage	$\pm 0.2$ ppm maximum / V $\pm 5\%$
Frequency vs. Load	$\pm 0.2$ ppm maximum / 15 pF $\pm 10\%$
Aging	$\pm 1.0$ ppm maximum per year at 25°C
Output Load	50 Ohms
Output Waveform	Sine wave
Output Level	0 dBm Typ for 3.3V part; 10 dBm Typ for 5.0V part
Control Voltage (Vc)	2.5 $\pm$ 2.0 VDC for Vcc = 5 VDC; 1.65 $\pm$ 1.5 VDC for Vcc = 3.3 VDC
Setability of Vc at Fnom, 25°C	2.5 $\pm$ 0.5 V DC for 5.0V part; 1.65 $\pm$ 0.4 VDC for 3.3V part

## Phase Noise (Typical)

-80 dBc/Hz	10 Hz,
-120 dBc/Hz	100 Hz
-135 dBc/Hz	1 kHz
-140 dBc/Hz	10 kHz
-145 dBc/Hz	100 kHz

