



Description

Surface mount temperature compensated crystal oscillator (TCXO) in a miniature ceramic package with a HCMOS output **2.5*2.0*0.9mm**

APPLICATION

- GPS
- Smartphone
- Communications
- Consumer



Frequency Parameters

■ Frequency	10-52MHz
■ Frequency Tolerance @ 25° C	±0.50ppm
■ Frequency Stability	±2.00ppm
■ Operating Temperature Range	-40.00 to 85.00° C
■ Ageing	±1ppm per year @ 25° C
■ Supply Voltage Variation (@ ±5% change):	±0.2ppm max
■ Load Variation (@ ±10% change):	±0.2ppm max

Electrical Parameters

■ Supply Voltage	3.00V
■ Supply Voltage Tolerance	±5%
■ Current Draw	4.00mA max

Output Details

■ Output Compatability	HCMOS
■ Output Load	15pF
■ Rise and Fall time (10% - 90%)	5ns max
■ Duty Cycle	45/55% max

Output Control

■ Standby Operation:
 Logic '1' ($\geq 70\%V_s$) to pad 1 enables oscillator output
 Logic '0' ($\leq 30\%V_s$) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
 No connection to pad 1 enables oscillator output
 Standby Current: 10 μ A max

Noise Parameters

Phase Noise (typical): -145dBc/Hz @ 10kHz

