



## HCMOS/ACMOS/TTL COMPATIBLE SMD CLOCK OSCILLATORS - XO75 Series

### FEATURES

- RoHS Compliant (Pb-Free), Industry Standard Pin-out Spacing
- Very Low Phase Jitter with Fundamental or 3rd Overtone Crystal Design
- Tri-state Enable/Disable Standard; 5V, 3.3V, 2.5V or 1.8V Option
- Leadless Chip Carrier (LCC) Ultra Small Package (7x5x1.6 mm)

### SPECIFICATIONS

<b>Frequency Range</b>	1.000 MHz to 106.25MHz (5V), to 200 MHz (3.3V)
<b>Input Voltage (Vcc)</b>	A = +5VDC $\pm 10\%$ ; B = +3.3VDC $\pm 10\%$ ; C = 2.5VDC $\pm 10\%$ ; D = 1.8VDC $\pm 10\%$
<b>Input Current</b>	60 mA Maximum, depending on frequency and output load
<b>Storage Temperature</b>	-55°C to 125°C
<b>Overall Frequency Stability</b>	100 = $\pm 100$ ppm; 50 = $\pm 50$ ppm; 25 = $\pm 25$ ppm
<b>Temperature Range</b>	A = 0°C to 70°C; B = -40°C to 85°C; D = -20°C to 70°C; G = -10°C to 70°C
<b>Standard Stability</b>	100A = $\pm 100$ ppm / 0°C to 70°C
<b>Electric Option (Symmetry)</b>	1 = Tristate 60/40%; 3 = Tristate 55/45%; 5 = Tristate 52.5/47.5% 0 = No tristate 60/40%; 2 = No tristate 55/45%; 4 = No tristate 52.5/47.5%
<b>Output Load</b>	HCMOS: Drive up to 50 pF load; TTL: Drive up to 10 TTL gates
<b>Logic "1" / Logic "0" Level</b>	0.9Vcc Minimum / 0.1Vcc Maximum
<b>Rise/Fall Time (Tr/Tf)</b>	10 ns Maximum, depending on frequency and output load
<b>Start-up time</b>	10 ms Maximum
<b>Phase Jitter (RMS, 1 Sigma)</b>	1 ps Maximum for $f_j > 1$ kHz; 0.3 ps Typical for $f_j = 12$ KHz to 20MHz
<b>Tristate Function</b>	Input (Pin 1) High ( $> 0.7V_{cc}$ , or 2.2V if $V_{cc}=5V$ ) or open: Output (Pin 3) active Input (Pin 1) Low ( $< 0.3V_{cc}$ , or 0.8V if $V_{cc}=5V$ ): Output disabled in high impedance
<b>Output Disabled Time</b>	100 ns Maximum
<b>Output Enable Time</b>	100 ns Maximum

### Creating a Part Number

**XO75-125M000-B50A3**

Product Series	XO75	Symmetry, Tristate Option (see above)	3
Frequency	125M	Operating Temperature Range: A = 0 to 70°C	A
Supply Voltage: A = 5.0V	000	Frequency Stability:	B = -40 to 85°C
B = 3.3V	B	100 = $\pm 100$ ppm	G = -10 to 70°C
C = 2.5V	50	50 = $\pm 50$ ppm	X = Customized Temp Range
D = 1.8V	A	25 = $\pm 25$ ppm	

### OUTLINE DRAWING

