



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

Frequency Range	1.000 MHz to 106.25MHz (5V), to 200 MHz (3.3V)
Input Voltage (Vcc)	A = +5VDC $\pm 10\%$; B = +3.3VDC $\pm 10\%$; C = 2.5VDC $\pm 10\%$; D = 1.8VDC $\pm 10\%$
Input Current	60 mA Maximum, depending on frequency and output load
Storage Temperature	-55°C to 125°C
Overall Frequency Stability	100 = ± 100 ppm; 50 = ± 50 ppm; 25 = ± 25 ppm
Temperature Range	A = 0°C to 70°C; B = -40°C to 85°C; D = -20°C to 70°C; G = -10°C to 70°C
Standard Stability	100A = ± 100 ppm / 0°C to 70°C
Electric Option (Symmetry)	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%
Output Load	HCMOS: Drive up to 50 pF load; TTL: Drive up to 10 TTL gates
Logic "1" / Logic "0" Level	0.9Vcc Minimum / 0.1Vcc Maximum
Rise/Fall Time (Tr/Tf)	10 ns Maximum, depending on frequency and output load
Start-up time	10 ms Maximum
Phase Jitter (RMS, 1 Sigma)	1 ps Maximum for $f_j > 1$ kHz; 0.3 ps Typical for $f_j = 12$ KHz to 20MHz
Tristate Function	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
Output Disabled Time	100 ns Maximum
Output Enable Time	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 = ± 100 ppm	G = -10 to 70°C
C = 2.5V	50	50 = ± 50 ppm	X = Customized Temp Range
D = 1.8V	A	25 = ± 25 ppm	

OUTLINE DRAWING

