32.768KHz CMOS CLOCK OSCILLATOR IN 3.2x2.5x0.9 mm SMD PACKAGE : XO32-32K768

FEATURES

- RoHS Compliant (Pb-Free)
- Tight Stability over Wide Temperature Range (Divided Circuit)
- Popular 32.768KHz Square Wave Output, Tri-state Enable/Disable Standard
- Leadless Chip Carrier (LCC) Ultra Small Package

SPECIFICATIONS

Frequency	32.768 KHz
Input Voltage (Vcc)	A = +5.0VDC ± 5%; B = +3.3VDC ± 5%; C = +2.5VDC ± 5%; D = +1.8VDC ± 5%
Input Current	100 uA Maximum (80 uA Typ)
Storage Temperature	-55°C to 125°C
Overall Frequency Stability	30 = ±30 ppm; 25 = ±25 ppm; 20 = ±20 ppm
Temperature Range	B = -40°C to 85°C
Standard Stability	30B = ±30 ppm / -40°C to 85°C
Electric Option (Symmetry)	1 = Tristate 60/40%; 3 = Tristate 55/45%
Output Load	HCMOS: 15 pF load
Logic "1" / Logic "0" Level	0.9Vcc Minimum / 0.1Vcc Maximum
Rise/Fall Time (Tr/Tf)	6 ns Maximum
Start-up time	1 ms Maximum
Phase Jitter (RMS, 1 Sigma)	1 ps Max for fj > 1kHz; 0.3 ps Typical for fj = 12KHz to 20MHz
Tristate Function	Input (Pin 1) High (> 0.7Vcc, or 2.2V if Vcc=5V) or open: Output (Pin 3) active Input (Pin 1) Low (< 0.3Vcc, or 0.8V if Vcc=5V): Output disabled in high impedance
Output Disabled Time	100 ns Maximum
Output Enable Time	1 ms Maximum (or 100 ns Maximum as an option)

Typical Part Number XO32-32K768-B30B3

- Product Series
- Frequency
- Supply Voltage: B = 3.3V, C = 2.5V, D = 1.8V, A = 5.0V
- Frequency Stability: 30 = ±30 ppm, 25 = ±25 ppm, 20 = ±20 ppm
- Operating Temperature Range: B = -40 to 85°C
- Symmetry, Tristate Option (see above)

OUTLINE DRAWING