

# ACH-32.000MHZ.EK:

## Oscillator 32.000 MHz 5 V

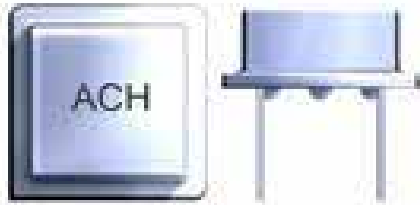
### Product Feature Sheet

#### Features

- Wide frequency range.
- HCMOS and TTL compatible.
- Tight symmetry option.
- Tri-state Enable / Disable function.

#### Typical Applications

- Microprocessors
- Digital circuit



#### Absolute Maximum Ratings:

Frequency	32.768kHz to 200MHz
Operating Temperature	0 °C to +70 °
Storage Temperature	-55 °C to +125 °C
Frequency Stability	± 100ppm max
Supply Voltage (Vdd)	5.0 Vdc ± 10%
Symmetry	45/55% max. for F < 50 MHz 40/60% max. for F ≥ 50 MHz
Rise and Fall Times (Tr/Tf)	40ns max. for 2.768kHz ≤ F < 2MHz 10ns max. for 2MHz ≤ F < 24 MHz 5ns max. for F > 24 MHz
Output Load	10 TTL or 15 pF for F < 80 MHz 5 TTL or 15 pF for F ≥ 80 MHz
Output Voltage	VOH = 0.9 * VDD min. VOL = 0.1 * VDD max.
Tri-State Function	"1" (VIH ≥ 2.2 Vdc) or open: Oscillation "0" (VIL < 0.8 V): Hi Z
Start-Up-Time	10 ms max
Output Disable/Enable Time	100 ns max. (for Option "-A" ONLY)
Input Current	30 mA max. for F < 24 MHz 45 mA max. for F < 50 MHz 70 mA max. for F < 80 MHz 85 mA max. for F ≥ 24 MHz

#### Options & Part Identification

ACH - Frequency — □ □ □ □ □ □ □ □

Temperature Options	
D	-10 °C to +60 °C
E	-20 °C to +70 °C
F	-30 °C to +70 °C
N	-30 °C to +85 °C
L	-40 °C to +85 °C

Symmetry Options	
S	45/55% @ 1/2Vdd
T	47.5/52.5% @ 1/2Vdc
S1	45/55% @ 1.4Vdc
T1	45.5/52.5% @ 1.4Vdc

Packaging	
Blank	Tube
TY	Tray

Frequency Stability	
Y	± 10 ppm max.
J	± 20 ppm max.
R	± 25 ppm max.
K	± 30 ppm max.
H	± 35 ppm max.
C	± 50 ppm max.

Tristate Enable Funct	
A	Tristate Function

50pF Option	
50	50pF

Value Added Option	
G	Gull Wing
G2	Gull Wing
GHT	Gull Wing Reflow
Q30	0.30(7.62)
Q25	0.25(6.35)
Q20	0.20(5.08)
Q15	0.15(3.81)
Q10	0.10(2.54)