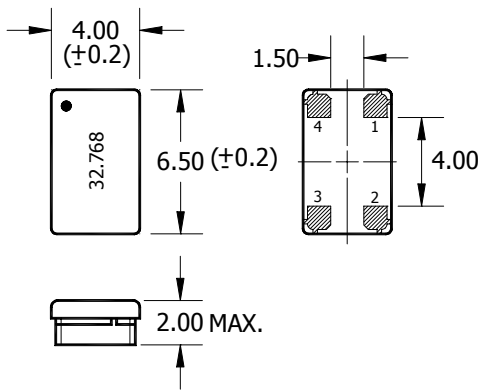


Frequency	32.768KHz
Output	HCMOS
Level	$V_{OH}: 0.9V_{DD} \text{ Min} / V_{OL}: 0.1V_{DD} \text{ Max.}$
Duty Cycle	50% +/- 5% (@ 1/2 $V_{CC}$ @ 3.3V @ 25°C)
Rise Time/Fall Time	200ns max
Output Load	15pF Max
Stability	
Frequency vs. Temperature	$G = \pm 30 \text{ ppm}, H = \pm 60 \text{ ppm}$
Frequency Calibration Tolerance	$\pm 30 \sim \pm 60 \text{ ppm}$
Supply Voltage	2.0V ~ 6.0V
Current	TYP.: $8\mu\text{A}/3.3\text{V}$ . MAX: $15\mu\text{A}/3.3\text{V}$
Temperature	
Operating	0 °C ~ +70 °C
Storage	-40 °C ~ +85 °C

Part Number Guide		Sample Part #:		QCM32-3ATA1N-32.768K			
QCM32	Input Voltage	Operating Temp	Symmetry (Duty Cycle)	Output	Stability (in ppm)	Enable/Disable	Frequency
	3 = 3.3V	A = 0°C ~ +70°C	T = 45/55 max	A = HCMOS	1 = $\pm 100$	N = None	32.768 KHz
	5 = 5.0V				2 = $\pm 50$		

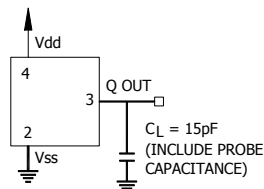
DIMENSION UNITS: mm



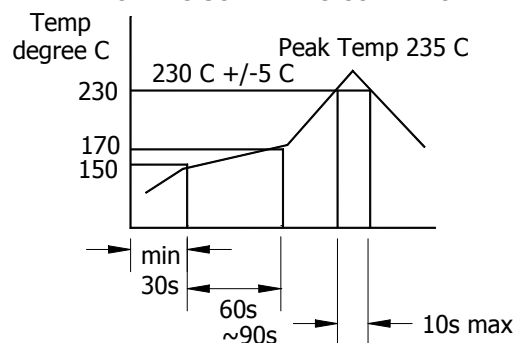
PIN CONNECTIONS

- 1 NC
- 2 GROUND (Vss)
- 3 OUTPUT
- 4 3.3V (Vdd)

MEASUREMENT CIRCUIT



REFLOWING SOLDERING CONDITION



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Specifications subject to change without notice (Rev A)