

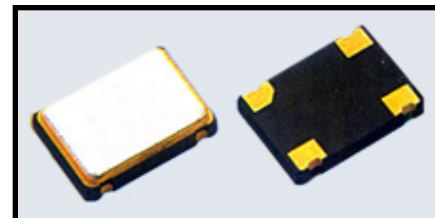
# Surface Mount RTC Crystal Oscillator

# D4 Series



Seam Sealed Ceramic 2.5 x 2.0 x 0.90mm with Tri-State Function

(4 Pads)



### Features:

- Compact and thin ceramic package with metalized for surface
- Automatic mounting and reflow soldering
- Use AT crystal as the resonator for temperature performance
- Tri-state function
- Supply voltage of 1.8V, 2.8V, and 3.3V available
- Low power consumption
- **RoHs Compliant (Pb Free)**

### Electrical Specifications:

Parameters	D4
Nominal Frequency	32.768 kHz
Output Type	CMOS
Supply Voltage	1.8V, 2.5V or 3.3V
Frequency Range	4MHz to 50MHz
Frequency Stability	± 25ppm, or specify
Output Load	15pF, or specify
Oscillation Mode	AT Fundamental
Operating Temperature	-20°C ~ +70°C; -40°C ~ +85°C, or specify
Storage Temperature	-55°C ~ +125°C°
Supply Current	3mA Max
Symmetry	45 ~ 55%
Voltage Vol(Max) / Voh (Min)	0.1VDD / 0.9VDD
Rise(Tr) / Fall (Tf) Time	200ns Max
Start-up Time	2ms Max
Tri-State Voltage Vol(Max) / Voh (Min)	0.3VDD / 0.7VDD
Aging (at 25°C)	±3ppm / year Max

### Part Numbering System:

D4 3 C — 32.768 X T 15  
 ① ② ③ ④ ⑤ ⑥ ⑦

① Series	② Supply Voltage		③ Frequency Stability		④ Frequency	⑤ Operating Temperature		⑥ Output Load		⑦ Output Load	
D4	Code	Voltage	Frequency Stability		Frequency	Code	Ranges	Code	Output Symmetry	Code	Output Load
	3	3.3V	B: ±50 ppm		32.768 kHz	Nil	-10°C ~ +70°C	T	45% / 55%	15	15pF
	2	2.5V	C: ±30 ppm			A	-10°C ~ +60°C			30	30pF
	1	1.8V	D: ±25 ppm			B	-20°C ~ +70°C			50	50pF
						X	-40°C ~ +85°C				

**Remark:** Specifications are subject to change without prior notice. Please confirm with our sales engineer.

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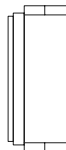
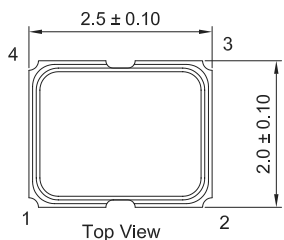
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(4 Pads)



## Dimensions(Units:mm):



- PAD FUNCTION:
- 1: ENABLE CONTROL
  - 2: GND
  - 3: OUT
  - 4: VDD

