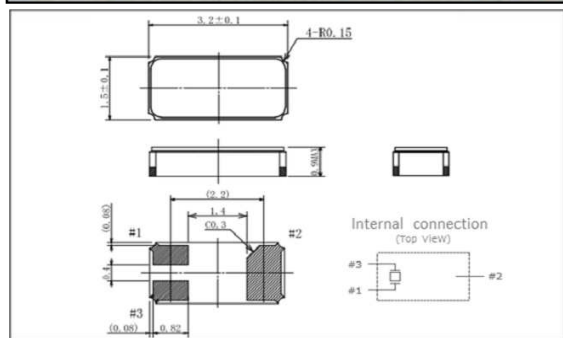


CM315E



TUNING FORK CRYSTAL UNIT

- Tuning fork crystal with ceramic packaged type.
- High flexibility in layout design of PCB.
- Lid cover connected to GND.
- Most appropriate for portable devices and noise sensitive products.
- Low material resistance 50kΩ Max.availabe.

Standard Specification

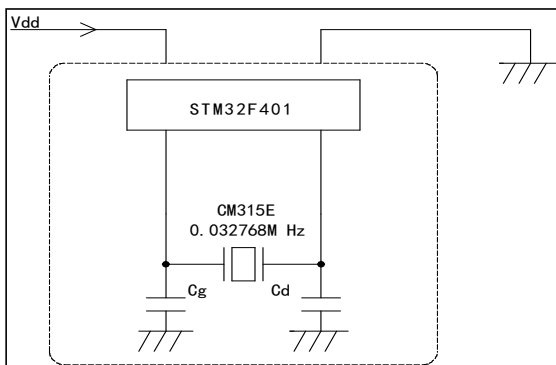
Nominal Frequency	kHz	32.768
Load Capacitance/CL	pF	6/7/9/12.5
Frequency Tolerance	ppm	+/-20
Operatating Temperature Range	°C	-40 to +85
Storage Temperature Range	°C	-55 to +125
Motional Resistance	Ω	50k Max
Level of drive	uW	1 uW max.
Insulation Resistance	MΩ	500 Min. (at DC100+/-15V)

Investigation Report of Oscillation Circuit

*USB/at 25°C

I C		ST MICRO/STM32F401 (PWB:NVCLEO-F401RE)	
CRYSTAL		CM315E	
Nominal Frequency	kHz	32.768	
Laod Capacitance	pF	6	
Cg,Cd	pF	8	8
Negative Resistance (-R)	ohm	380K	
Drive Level	μW	0.1	

* Our Recommendable Negative Resistance Value : over 300k ohm



※Matching is ONLY for reference.

It is related to the current board configuration and any changes on the boards and crystal spec is under customer's responsibility.

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