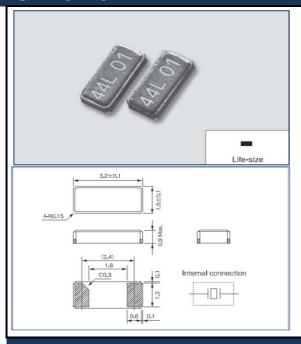
CM315DL



TUNING FORK CRYSTAL UNIT

- Tuning fork crystal with ceranic packaged SMD type for low current consumption IC.
- Reduced motional resistance by 30% compared with exsisting model.
- Most appropriate for portable devices, mobile telecommunication devices and wearable devices.

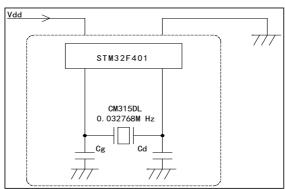
Standard Specificatione				
Nominal Frequency	kHz	32.768		
Load Capacitance/CL	pF	6/7/9/12.5		
Frequency Tolerance	ppm	+/-20		
Operatating Temperature Range	$^{\circ}$ C	-40 to +85		
Storage Temperature Range	$^{\circ}$ C	-55 to +125		
Motional Resistance	Ω	50k Max		
Level of drive	uW	1 uW max.		
Insulation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

Investigation Report of Oscillation Circuit

*USB/at 25°℃

IC		ST MICRO / STM32F401 (PWB:NVCLEO-F401RE)	
CRYSTAL		CM315DL	
Nominal Frequency	kHz	32.768	
Laod Capacitance	pF	6	
Cg,Cd	pF	8	8
Negative Resistance (-R)	ohm	400K	
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.

CITIZEN FINEDEVICE CO., LTD. /MIYOTA PLANT
Crystal Devices Division