

# RTF3215 - SMD Tuning Fork Crystal



## PRODUCT FEATURES:

- Compact, low profile (3.2 x 1.5 x 0.9 mm) and lightweight SMD tuning fork crystal resonator.
- Ceramic package and metal lid assures extreme accuracy and high-reliability through utilising electron beam sealing method.
- Applications: Microprocessors, Mobile Communications, DVC / DSC, SSD / HDD, GPS and General Purpose.



## SPECIFICATIONS:

ITEM	SPECIFICATIONS
Nominal frequency (kHz)	32.768
Frequency tolerance at 25°C (ppm)	±20
Turnover temperature (°C)	25 ± 5
Parabolic coefficient (1/°C <sup>2</sup> )	-0.03 ± 0.01 x 10 <sup>-6</sup>
Motional capacitance (fF)	4.7 Typ.
Motional resistance (ESR) (kΩ)	70 Max.
Drive level (µW)	0.5 Max.
Load capacitance (pF)	6.0, 7.0, 9.0 and 12.5
Storage temperature range (°C)	-55 to +125
Operating temperature range (°C)	-40 to 85
Packing unit (pcs/∅180mm reel)	3000

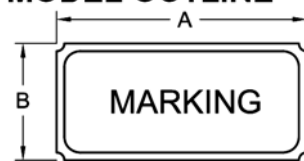
## STANDARD PART:

FREQUENCY TOLERANCE ± 20 ppm	
Part Number	Load Capacitance
106292	6.0 pF
105993	7.0 pF
106042	9.0 pF
105992	12.5 pF

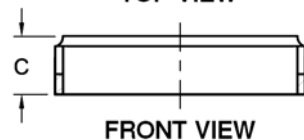
## NOTE:

- Consult Rakon sales representatives for other specifications.
- All specifications and markings are subject to change without notice.

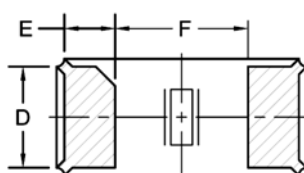
## MODEL OUTLINE



TOP VIEW



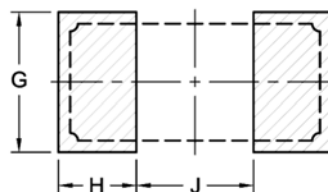
FRONT VIEW



BOTTOM VIEW

## RECOMMENDED PAD LAYOUT

- TOP VIEW



CODE	DIMENSION (mm)
A	3.2
B	1.5
C	0.9 max.
D	1.3
E	0.65
F	1.7
G	1.8
H	1.0
J	1.55
Tolerance	X.X and X.XX = ± 0.1

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