

RTF3215 – SMD Tuning Fork Crystal

3.2 x 1.5 mm, SMD



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, GNSS and general purpose.

Frequency and Electrical Characteristics

Parameter	Min.	Typ.	Max.	Unit	Test condition / Description
Nominal frequency (Fn)		32.768		kHz	
Frequency tolerance			±20	ppm	At 25°C
Turnover temperature	20	25	30	°C	
Parabolic coefficient	-0.02	-0.03	-0.04	ppm/°C ²	
Motional capacitance		4.7		fF	
Motional resistance (ESR)			70	kΩ	
Drive level			0.5	μW	
Operating temperature range	-40		+85	°C	
Storage temperature range	-55		+125	°C	
Load capacitance (Lc)		6, 7, 9, 12.5		pF	
Standard part number ¹ : 106292		6			
105993		7			
106042		9			
105992		12.5			
Standard Packing Quantity (SPQ)			9000	pcs/reel	Φ300mm reel

Model Outline, Recommended Pad Layout and Marking

TOP VIEW
A, B, Marking

FRONT VIEW
C

BOTTOM VIEW
D, E, F

RECOMMENDED PAD LAYOUT (TOP VIEW)
G, H, J

Code	Dimension (mm)
A	3.2 ± 0.1
B	1.5 ± 0.1
C	0.9 max.
D	1.3 ± 0.1
E	0.65 ± 0.1
F	1.7 ± 0.1
G	1.8 ± 0.1
H	1.0 ± 0.1
J	1.5 ± 0.1

¹ Consult Rakon sales representatives for other specifications. All specifications and markings are subject to change without notice.