

GSC3215K Series

Quartz Crystal Unit

Features

- Nominal Frequency 32.768KHz

Mechanical Data

- 3215 Surface Mount Package
- RoHS Compliant and Halogen Free

Packages & Pin Assignments

3215	Equivalent Circuit
	

Ordering and Marking Information

Ordering Information			
Part Number	Load Capacitance	Marking Code	Quantity/Reel
GSC3215KAF	12.5pF	X□□□□A	3,000 PCS
GSC3215KBF	9pF	X□□□□B	3,000 PCS
GSC3215KCF	7pF	X□□□□C	3,000 PCS
GSC3215KDF	6pF	X□□□□D	3,000 PCS

GSC3215K 1 F		
- Product Code: GSC3215K	- Type Code: 1 for Load Capacitance Type - 4 types A, B, C and D	- Green Level: F for RoHS Compliant and Halogen Free

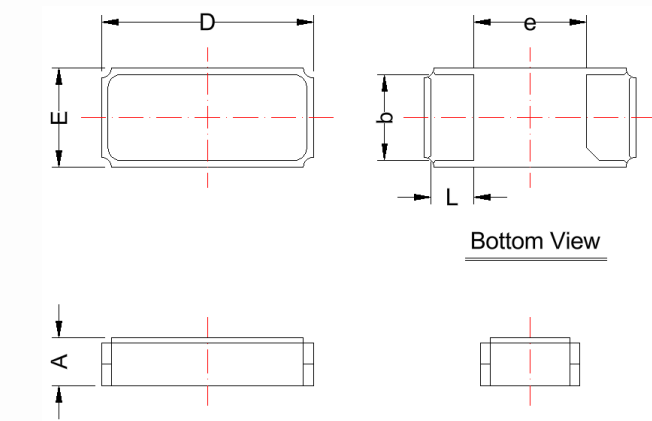
Marking Information		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> X22223 </div>	- Product Code: X	- GS Code: 2 2 2 2
		- Type Code: 3 for Load Capacitance Type - 4 types A, B, C and D

Electrical Characteristics (T_A=25°C unless otherwise specified)

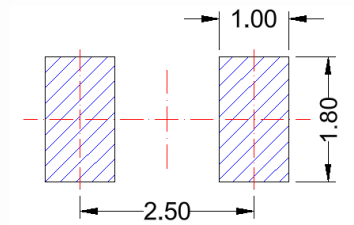
Symbol	Description	Min	Typ	Max	Unit	Note
	Crystal Cut Type	NT				
F	Nominal Frequency		32.768		KHz	
FT	Frequency Tolerance	-20		20	ppm	
K	Parabolic Curvature Constant		-0.04		ppm/°C ²	
	Aging	-3		3	ppm	Per Year
C _L	Load Capacitance		12.5		pF	A Type
			9			B Type
			7			C Type
			6			D Type
DL	Drive Level		0.1	0.5	μW	
ESR	Equivalent Series Resistance			50	KΩ	
C ₀	Shunt Capacitance			1.6	pF	
C ₁	Motional Capacitance			5	fF	
R _{INS}	Insulation Resistance	500			MΩ	@ DC100V
T _i	Turnover Temperature	20	25	30	°C	
T _{OPR}	Operation Temperature	-40		85	°C	
T _{STG}	Storage Temperature	-55		125	°C	
T _L	Soldering Temperature			350	°C	t =< 4s

3215

Package Dimension



Recommended Land Pattern



Unit:mm

Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	---	0.90	---	0.035
b	1.20	1.40	0.047	0.055
D	3.10	3.40	0.122	0.134
E	1.40	1.60	0.055	0.063
e	1.70 TYP		0.067 BSC	
L	0.55	0.75	0.012	0.016





NOTE:



Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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