

SMD Communication Crystals

Low profile SMD AT-cut quartz crystal in a ceramic package with a 5 mm x 3.2 mm footprint.

**Product description**

Miniature low profile AT-cut quartz crystal. True SMD style, ceramic package with metal lid, seam sealed. The product is supplied on tape and reel.

Applications

- Handset
- GPS
- PDA
- Automotive
- Consumer
- PND
- Communications
- Military

Features

- Excellent shock and vibration performance
- Low aging
- Very good short term stability

Specifications**1.0 SPECIFICATION REFERENCES**

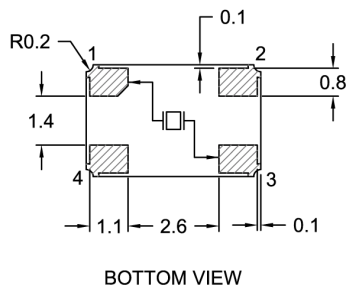
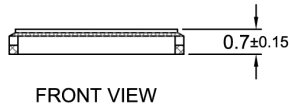
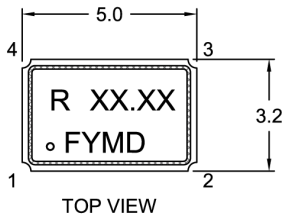
Line	Parameter	Description
1.1	Model description	RSX-5
1.2	RoHS compliant	Yes
1.3	Reference number	
1.4	Rakon part number	

2.0 FREQUENCY CHARACTERISTICS

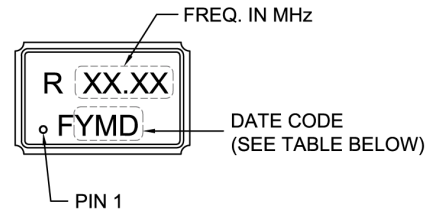
Line	Parameter	Test Condition	Value	Unit
2.1	Frequency		12 to 40	MHz
2.2	Calibration tolerance	Frequency at 25°C ±2°C and specified load capacitance	±5 to 25	ppm
2.3	Reflow shift	Two consecutive reflow as per attached profile after 4 hours recovery at 25°C	±1 max	ppm
2.4	Frequency stability over temperature	Referenced to frequency reading at 25°C and the specified load capacitance	±5 to 50	ppm
2.5	Temperature range	Operating temperature	-55 to 105	°C
2.6	Frequency perturbations	Peak-to-peak deviation from the frequency versus temperature curve fit. Minimum of 1 frequency reading every 3°C over operating temperature range	0.1 to 1	ppm
2.7	Static temperature hysteresis	Frequency change after reciprocal temperature ramped over the operating range. Frequency measured before and after at 25°C	±0.4 max	ppm
2.8	Long term stability	Frequency drift over 1 year at 25°C	±1 max	ppm
2.9	g Sensitivity	Gamma vector of all three axes from 30Hz to 1500Hz	2 max	ppb/g

Drawing Name: RSX-5 Model Drawing

MODEL OUTLINE

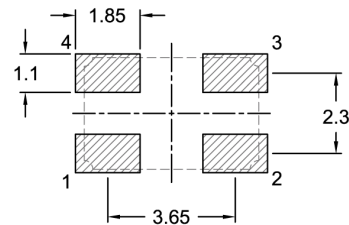


MARKING EXAMPLE



PIN CONNECTIONS	
1	CRYSTAL
2	GND
3	CRYSTAL
4	GND

RECOMMENDED PAD LAYOUT - TOP VIEW



Y - Year Code

Code	Year	Code	Year
A	2010	N	2023
B	2011	O	2024
C	2012	P	2025
D	2013	Q	2026
E	2014	R	2027
F	2015	S	2028
G	2016	T	2029
H	2017	U	2030
I	2018	V	2031
J	2019	W	2032
K	2020	X	2033
L	2021	Y	2034
M	2022	Z	2035

M - Month Code

Code	Month
1	Jan
2	Feb
3	Mar
4	Apr
5	May
6	Jun
7	Jul
8	Aug
9	Sep
A	Oct
B	Nov
C	Dec

D - Day Code

Code	Day	Code	Day	Code	Day
1	1	E	14	R	27
2	2	F	15	S	28
3	3	G	16	T	29
4	4	H	17	U	30
5	5	I	18	V	31
6	6	J	19		
7	7	K	20		
8	8	L	21		
9	9	M	22		
A	10	N	23		
B	11	O	24		
C	12	P	25		
D	13	Q	26		

TITLE: RSX-5 MODEL

RELATED DRAWINGS:

FILENAME: CAT126

REVISION: H

DATE: 20-Sep-11

SCALE: 5 : 1

Millimetres

TOLERANCES:

XX

X.X = ±0.2

X.XX = ±0.10

X.XXX

X°

Hole

rakon

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