

SMD Communication Crystal

Low profile SMD AT-cut quartz crystal in a ceramic package with a 1.6 x 1.2 mm foot print.

**Product description**

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

Applications

- Automotive
- Communications
- GPS
- Consumer
- Feature phone

Features

- Low aging
- Wide temperature range
- Low hysteresis

Specifications**1.0 SPECIFICATION REFERENCE**

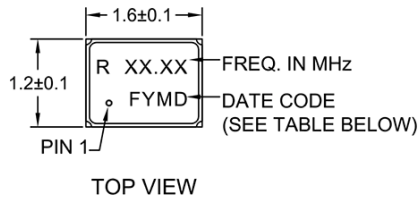
Line	Parameter	Description
1.1	Model description	RSX1612
1.2	RoHS compliant	Yes
1.3	Reference number	
1.4	Rakon part number	
1.5	Package	W, M, or V

2.0 FREQUENCY CHARACTERISTICS

Line	Parameter	Test Condition	Value	Unit
2.1	Frequency		26 to 52	MHz
2.2	Calibration tolerance	Frequency at 25°C $\pm 2^{\circ}\text{C}$ and specified load capacitance	± 10 to 50	ppm
2.3	Reflow shift	Frequency shift after reflow with 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	± 15 to 50	ppm
2.5	Temperature range	Operating temperature	-40 to 85	$^{\circ}\text{C}$
2.6	Frequency perturbations	Residual error from the frequency versus temperature 5th order polynomial curve fit. Minimum of 1 frequency reading every 3°C over operating temperature range	1 max	ppm
2.7	g sensitivity	Gamma vector of all three axes from 30 Hz to 1500 Hz	2 max	ppb/g
2.8	Long term stability	Frequency drift over 1 year at 25°C	± 1 max	ppm

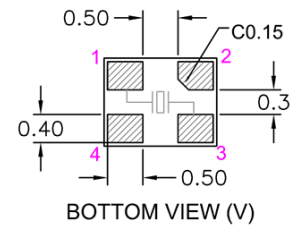
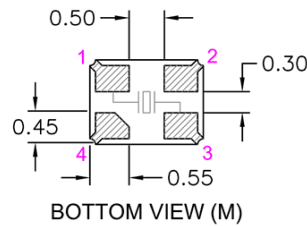
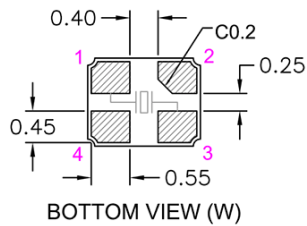
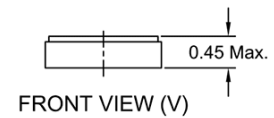
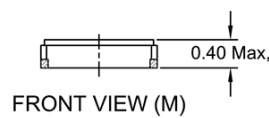
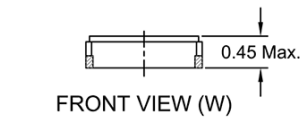
Drawing Name: RSX1612 Model (Package W, M & V)

MODEL DRAWING

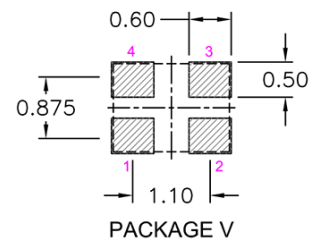
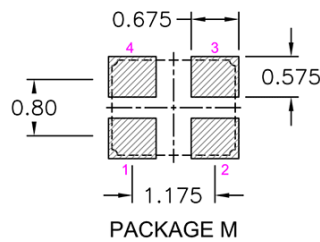
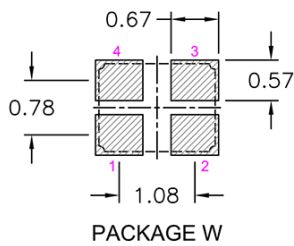


NOTE:

1. MARKING INFORMATION IS DETAILED IN THE SPECIFICATION.
2. PIN CONNECTIONS ARE DETAILED IN THE SPECIFICATION.



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: RSX1612 Model (Package W, M & V)

RELATED DRAWINGS:

FILENAME: CAT785

REVISION: B

DATE: 26-Apr-13

SCALE: 10 : 1

Millimetres

TOLERANCES:

XX =

X.X = ±0.1

X.XX = ±0.10

X.XXX = ±0.05

X° =

Hole =

rakon

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