

rakon

SMD Communication Crystal

Low profile SMD AT-cut quartz crystal with thermally coupled temperature sensor in a ceramic package with a 2.0 mm x 1.6 mm foot print.

Product description

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

Applications

- Automotive
- Communications
- GPS
- Mobile phones
- Wi-Fi

Features

- Low aging
- Excellent shock and vibration performance
- Thermally coupled temperature sensor

Specifications

- 1.0 SPECIFICATION REFERENCE
- Line Parameter Description
- 1.1 Model description RXT2016AT

Yes

- 1.2 RoHS compliant
- 1.3 Reference number
- 1.4 Rakon part number
- 2.0 FREQUENCY CHARACTERISTICS

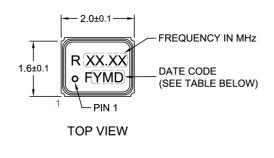
Line	Parameter	Test Condition	Value	Unit
2.1	Frequency		19.2 to 52	MHz
2.2	Calibration tolerance	Frequency at 25°C \pm 2°C and specified load capacitance	±10 to 50	ppm
2.3	Reflow shift	Frequency shift after reflow with 4 hours settling at 25°C	±1 max	ppm
2.4	Frequency stability over temperature	Referenced to frequency reading at 25°C and the specified load capacitance	±12 to 50	ppm
2.5	Temperature range	Operating temperature	-40 to 85	°C
2.6	Frequency perturbations	, , , , ,		ppm
2.7	Long term stability	Frequency drift over 1 year at 25°C	±1 to 2	ppm
2.8	G sensitivity	Gamma vector of all three axes from 30Hz to 1500Hz at 10 RMS	2 max	ppb/g
3.0	ELECTRICAL			
Line	Parameter	Test Condition	Value	Unit
3.1	Load capacitance (CL)	Frequency is calibrated at room temperature	5 to 32	pF
3.2	Shunt capacitance (C0)	Operating specification	0.5 to 3	pF
3.3	Pullability	Load and frequency dependent	0.5 min	ppm/pF
3.4	Drive level	Operating specification	100 max	μW
3.5	Equivalent series resistance (ESR)		85 max	Ω
3.6	Insulation resistance	100V ±15V at 25°C	500 min	MΩ

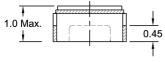


EOB2B晶振平台-全球最专业的晶振在线采购查询平台http://www.crysta195.com

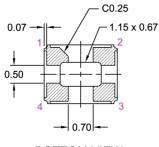
Drawing Name: RXT2016 Model Drawing

MODEL OUTLINE





FRONT VIEW



BOTTOM VIEW

Y - Year Code

Code

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Year

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Α

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Code	Day	Code	Day	Code	Day
1	1	Е	14	R	27
2	2	F	15	S	28
3	3	G	16	Т	29
4	4	н	17	U	30
5	5	1	18	V	31
6	6	J	19		
7	7	K	20		
8	8	L	21		
9	9	M	22		
Α	10	N	23		
В	11	0	24		
С	12	Р	25		
D	13	Q	26		

Limited

TITLE: RXT2016AT MODEL	FILENAME:	CAT681	— XX _ X.X	RANCES:	
RELATED DRAWINGS:	REVISION :	А		=	
	DATE:	18-Apr-12		$= \pm 0.10$	rako
	SCALE:	10 : 1		= ±0.05 =	
	Millimetres			=	© 2009 Rakon I

EQUIVALENT CIRCUIT - TOP VIEW



PIN CONNECTIONS

CRYSTAL GND CRYSTAL

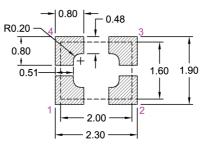
1 2

3

4

THERM

RECOMMENDED PAD LAYOUT - TOP VIEW



D - Day Code