



SMD Quartz Crystal

Features

- Wide Frequency Range
- RoHS Compliant

7050, 6035, 5032

Table 1: General Specifications

Parameter/ Package	7050	6035	5032
Frequency Range	6.0 MHz ~ 200.0 MHz	8.0 MHz ~ 125.0 MHz	8.0 MHz ~ 165.0 MHz
Mode of Oscillation	Fundamental & Overtone	Fundamental & Overtone	Fundamental & Overtone
Frequency Tolerance at 25°C	Select from Table 3		
Operating Temperature Range (OTR)	Select from Table 4		
Temperature Stability	Select from Table 4		
Equivalent Series Resistance (ESR)	Select from Table 2		
Drive Level	10 μ Watts (typ.) 100 μ Watts (max.)		
Resonance Condition	XXS: Series, XXP: Parallel with xx pF (for parallel, please specify the xx value in pF)		
Storage Temperature Range	-50°C to +105°C		
Aging @ 25°C	\pm 3 ppm/ Year (max.)		

Table 2: Mode of Oscillation/ Equivalent Series Resistance

7050			6035			5032		
Frequency Range (MHz)	Mode of Oscillation	ESR (max.)	Frequency Range (MHz)	Mode of Oscillation	ESR (max.)	Frequency Range (MHz)	Mode of Oscillation	ESR (max.)
6.0 ~ 7.9	Fundamental	80 Ω	8.0 ~ 11.9	Fundamental	80 Ω	8.0 ~ 9.9	Fundamental	150 Ω
8.0 ~ 10.9	Fundamental	60 Ω	12.0 ~ 15.9	Fundamental	60 Ω	10.0 ~ 14.9	Fundamental	80 Ω
11.0 ~ 13.9	Fundamental	50 Ω	16.0 ~ 50.0	Fundamental	40 Ω	15.0 ~ 19.9	Fundamental	50 Ω
14.0 ~ 49.9	Fundamental	40 Ω				20.0 ~ 52.0	Fundamental	40 Ω
40.0 ~ 200.0	3 rd Overtone	90 Ω				40.0 ~ 200.0	3 rd Overtone	80 Ω

Table 3: Frequency Tolerance at 25°C

Code	Tolerance	Code	Tolerance
D	\pm 10 ppm	H	\pm 30 ppm
E	\pm 15 ppm	M	\pm 50 ppm
F	\pm 20 ppm	K	\pm 100 ppm
G	\pm 25 ppm		

Table 4: Temperature Stability

OTR Codes	Stability Code	D	E	F	G	H	M	K	N
		\pm 10 ppm	\pm 15 ppm	\pm 20 ppm	\pm 25 ppm	\pm 30 ppm	\pm 50 ppm	\pm 100 ppm	\pm 150 ppm
Operating Temperature Range (OTR)	-10°C to +60°C								
	0°C to +70°C								
	-10°C to +70°C								
	-20°C to +70°C								
	-30°C to +70°C								
	-30°C to +80°C								
	-30°C to +85°C								
	-40°C to +85°C								
	-40°C to +125°C								
	-55°C to +85°C								
	-55°C to +125°C								
	-40°C to +150°C								

Denotes Available Denotes not Available

SMD Quartz Crystal

Mechanical Specifications:

	7050	6035	5032
Top View			
Side View			
Bottom View			

Chamfered pad is pad no. 4

Chamfered pad is pad no. 1 or pad no. 3

Chamfered pad is pad no. 1 or pad no. 2

▲ All dimensions are in mm.
Tolerance is ± 0.1 mm,
unless otherwise specified.

Pad Connections:
Pad 1, 3: Crystal
Pad 2, 4: Ground

Ordering Information

Example

7050	F	I	H	1	18P	010M000000
------	---	---	---	---	-----	------------

Series

Tolerance: ± 20 ppm

OTR: -40°C to 85°C

Freq. 10 MHz

Resonance Condition
XXS: Series
18P: Parallel with 18 pF

Mode: 1: Fundamental
3: 3rd overtone

Stability over OTR: ± 30 ppm

Specifications subject to change without prior notice

Rev. Date: 26th August 2025

Note: Not all combination of options are available. Other specifications may be available upon request.

Doc No: AE/DS/XS/001

ISSUE 01

REVISION 03

Page 2 of 2

Andhra Electronics Pvt. Ltd.

Plot no.34 & 35, IDA,
Kakinada-533 005
Andhra Pradesh, India
URL: www.andhraelec.com

Phone: +91 884 234 2203
Fax: +91 884 234 1145
e-mail: info@andhraelec.com