

XMA Type

SMD7050 X'TAL Series

Feature

- ◆ Frequency Range: 5~125MHz
- ◆ Typical 7.0 x 5.0 x 1.20 mm ultra thin ceramic package
- ◆ 8mm width carrier Tape & Reel package for automatic assembly.
- ◆ Packing : Tape & Reel, 1000pcs / Reel.

Typical Application

- ◆ Automotive
- ◆ Bluetooth, Mobile Phone, GPS
- ◆ Wireless LAN, LTE.
- ◆ Set-top Box, DECT / WDCT, TV.

Electrical Specifications

Parameter	Specification			Unit	Remark
	Min	Typical	Max		
Frequency Range (F0)	5~125			MHz	-
Storage Temperature Range (Ts)	-55	-	125	°C	-
Level of Drive (DL)	-	100	200	uW	-
Load Capacitance (CL)	6 pF ~ ∞			pF	Assignable
Insulation Resistance	500	-	-	Mohm	at DC 100V
Aging	-3	-	3	ppm/Year	First Year

Frequency Stability Vs Temperature Range

Temp Range(°C) \ ppm	±5	±10	±15	±20	±30	±50	±100
-10~60	△	√	√	√	√	√	√
-20~70	X	√	√	√	√	√	√
-40~85(F>=16MHz)	X	△	√	√	√	√	√
-40~85(F<16MHz)	X	X	√	√	√	√	√
-40~105	X	X	X	△	√	√	√
-40~125	X	X	X	X	△	√	√

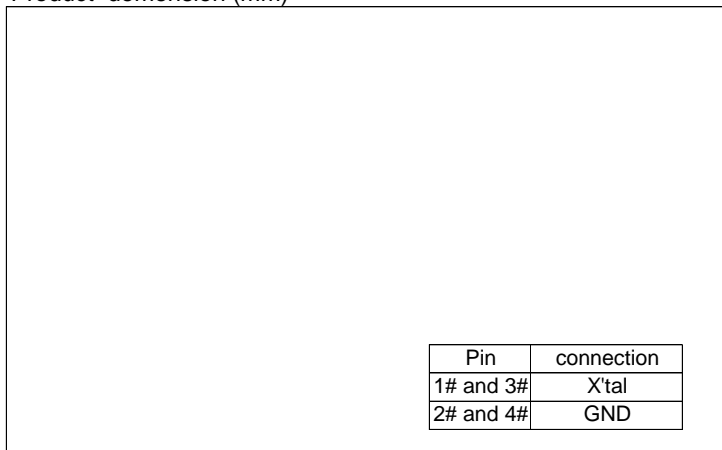
Note: √ :Available, △:Conditional, X:Not available

ESR (Equivalent Series Resistance)

Frequency Range	Mode	ESR (Max)	Unit
5MHz < F ₀ ≤ 8MHz	Fundamental	100	ohm
8MHz ≤ F ₀ < 10MHz	Fundamental	60	ohm
10MHz ≤ F ₀ < 14MHz	Fundamental	50	ohm
14MHz ≤ F ₀ < 20MHz	Fundamental	40	ohm
20MHz ≤ F ₀ ≤ 40MHz	Fundamental	30	ohm
35MHz ≤ F ₀ < 125MHz	3 rd Overtone	80	ohm

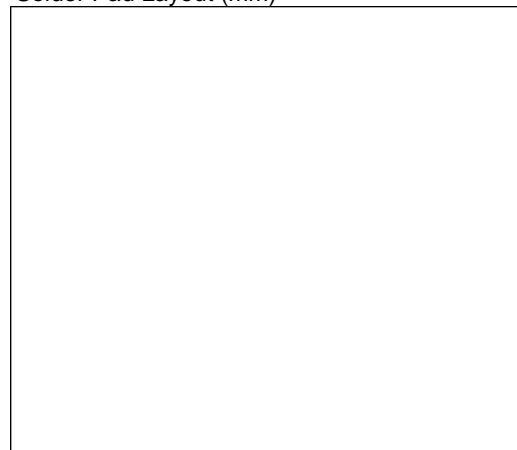
Dimension

Product demension (mm)



Pin	connection
1# and 3#	X'tal
2# and 4#	GND

Solder Pad Layout (mm)



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

Specifications subject to change without notice.