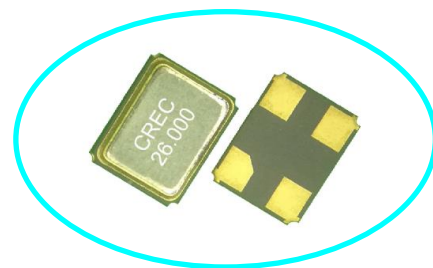


## XMD Type

### SMD3225 X'TAL Series

#### Feature

- ◆ Frequency Range: 8~125MHz
- ◆ Typical 3.2 x 2.5 x 0.6 mm ultra thin ceramic package
- ◆ 8mm width carrier Tape & Reel package for automatic assembly.
- ◆ Packing : Tape & Reel, 3000pcs / 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)	8~125			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	△	√	√

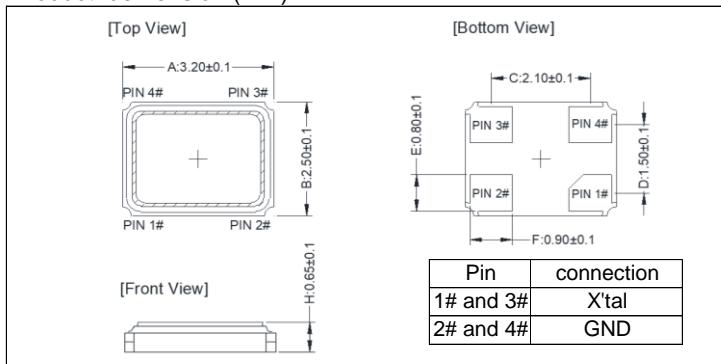
Note: √ :Available, △:Conditional, X:Not available

#### ESR (Equivalent Series Resistance)

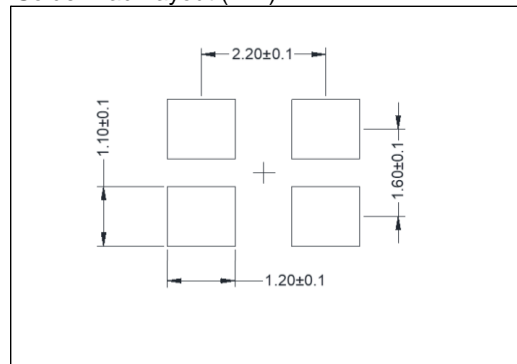
Frequency Range	Mode	ESR (Max)	Unit
7.9MHz < F <sub>0</sub> ≤ 10MHz	Fundamental	200	ohm
10MHz ≤ F <sub>0</sub> < 12MHz	Fundamental	120	ohm
12MHz ≤ F <sub>0</sub> < 16MHz	Fundamental	80	ohm
16MHz ≤ F <sub>0</sub> < 20MHz	Fundamental	70	ohm
20MHz ≤ F <sub>0</sub> < 24MHz	Fundamental	60	ohm
24MHz ≤ F <sub>0</sub> < 50MHz	Fundamental	40	ohm
50MHz ≤ F <sub>0</sub> ≤ 62.4MHz	Fundamental	30	ohm
60MHz ≤ F <sub>0</sub> < 100MHz	3 <sup>rd</sup> Overtone	60	ohm
100MHz ≤ F <sub>0</sub> < 125MHz	3 <sup>rd</sup> Overtone	50	ohm

#### Dimension

Product demension (mm)



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.

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