

Data Sheet

Customer : _____

Product : Miniature SMD Type / MHz Band Crystal Resonators
HQCX Series

Size : 5032 / 3225 / 2520 / 2016 / 1612

Issued Date : 01-Oct.-2025

Edition : Ver.1

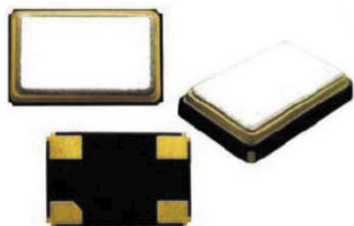
Record of change

Date	Ver.	Description	Page

HITANO ENTERPRISE CORP.

7F-7, No. 3, Wu Chuan 1st Road, New Taipei Industrial Park,
New Taipei City, TAIWAN, R.O.C.
Tel: +886 2 2299 1331 (Rep.)
Fax: +886 2 2298 2466, 2298 2969

Prepared by	Checked by	Approved by	Accepted by (customer)
01-Oct.-2025	01-Oct.-2025	01-Oct.-2025	
Randy Yu	Michelle Lin	Arthur Su	



Seam Crystal
5032 Series

- Ultra small SMD type crystal units
- Excellent for reducing EMI effect
- Higher frequency stability and reliability
- High precision characteristic covering up to wide frequency range

Applications: Cellular Phone, GPS, Bluetooth, Wireless LAN, etc.

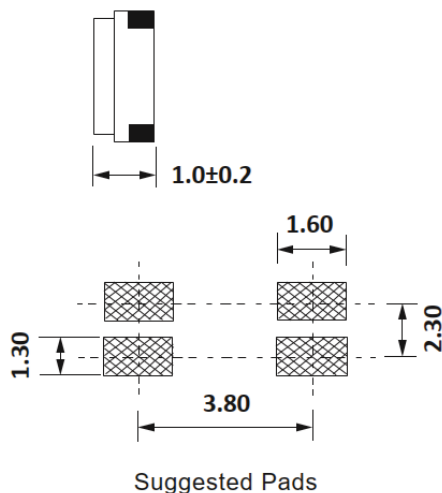
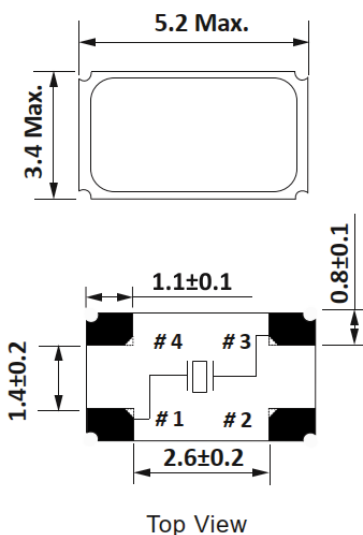
Electrical Specifications

Model	5032
Frequency Range	8 ~ 50MHz
Frequency Tolerance (at 25°C)	±10ppm, ±30ppm, or specify
Frequency Stability Over Operating Temperature Range	±10ppm, ±30ppm, or specify
Operating Temperature Range	-20°C ~ +70°C, -40°C ~ +85°C, or specify
Shunt Capacitance (C0)	5pF Max.
Drive Level	100uW Max.
Load Capacitance	Series, 9pF, 10pF, 12pF, 16pF, 20pF, or specify
Aging (at 25°C)	±3ppm / year Max.
Storage Temperature Range	-55°C ~ +125°C

Equivalent Series Resistance (ESR)

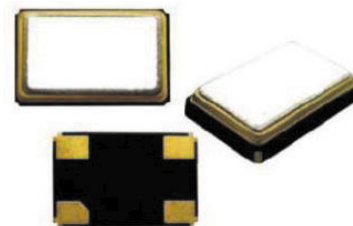
Fundamental	
8 ~ 50MHz	100Ω Max.

Dimensions : Unit mm



- Ultra small SMD type crystal units
- Excellent for reducing EMI effect
- Higher frequency stability and reliability
- High precision characteristic covering up to wide frequency range

Applications: Cellular Phone, GPS, Bluetooth, Wireless LAN, etc.



Seam Crystal
3225 Series

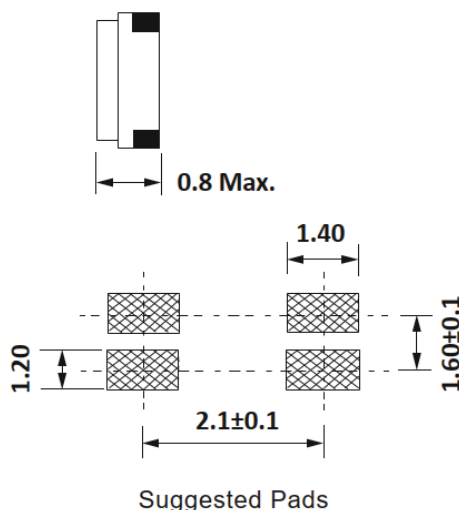
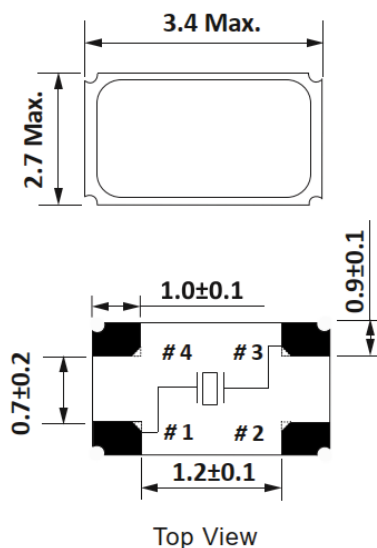
Electrical Specifications

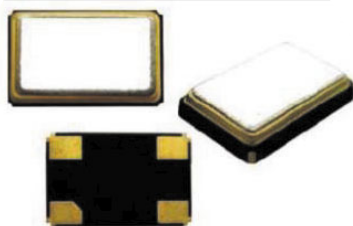
Model	3225
Frequency Range	8 ~ 54MHz
Frequency Tolerance (at 25°C)	±10ppm, ±30ppm, or specify
Frequency Stability Over Operating Temperature Range	±10ppm, ±30ppm, or specify
Operating Temperature Range	-20°C ~ +70°C, -40°C ~ +85°C, or specify
Shunt Capacitance (C0)	3pF Max.
Drive Level	100uW Max.
Load Capacitance	Series, 9pF, 10pF, 12pF, 16pF, 20pF, or specify
Aging (at 25°C)	±3ppm / year Max.
Storage Temperature Range	-55°C ~ +125°C

Equivalent Series Resistance (ESR)

Fundamental			
8 ~ 27.12MHz	150Ω Max.	30 ~ 54MHz	50Ω Max.

Dimensions : Unit mm





Seam Crystal
2520 Series

- Ultra small SMD type crystal units
- Excellent for reducing EMI effect
- Higher frequency stability and reliability
- High precision characteristic covering up to wide frequency range

Applications: Cellular Phone, GPS, Bluetooth, Wireless LAN, etc.

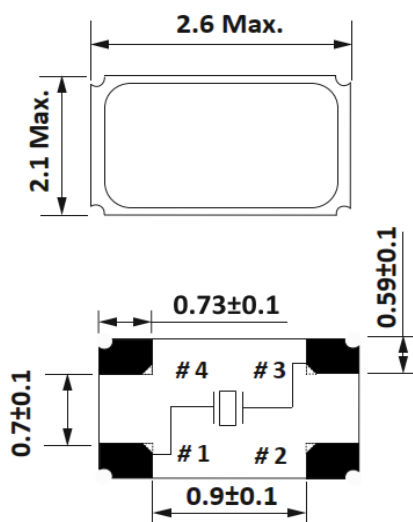
Electrical Specifications

Model	2520
Frequency Range	12 ~ 50MHz
Frequency Tolerance (at 25°C)	±10ppm, ±30ppm, or specify
Frequency Stability Over Operating Temperature Range	±10ppm, ±30ppm, or specify
Operating Temperature Range	-20°C ~ +70°C, -40°C ~ +85°C, or specify
Shunt Capacitance (C0)	3pF Max.
Drive Level	100uW Max.
Load Capacitance	Series, 9pF, 10pF, 12pF, 16pF, 20pF, or specify
Aging (at 25°C)	±3ppm / year Max.
Storage Temperature Range	-55°C ~ +125°C

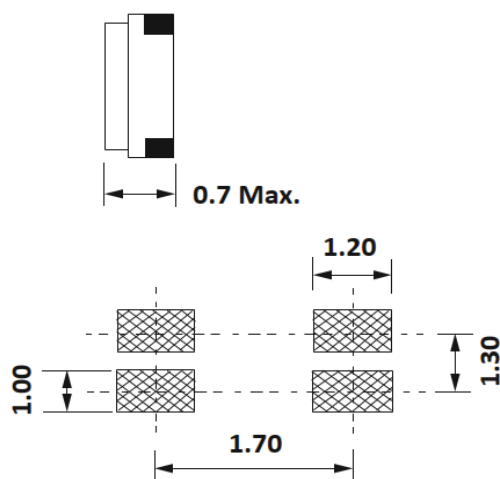
Equivalent Series Resistance (ESR)

Fundamental			
12 ~ 27.12MHz	160Ω Max.	30 ~ 50MHz	80Ω Max.

Dimensions : Unit mm



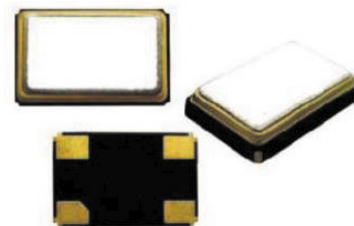
Top View



Suggested Pads

- Ultra small SMD type crystal units
- Excellent for reducing EMI effect
- Higher frequency stability and reliability
- High precision characteristic covering up to wide frequency range

Applications: Cellular Phone, GPS, Bluetooth, Wireless LAN, etc.



Seam Crystal
2016 Series

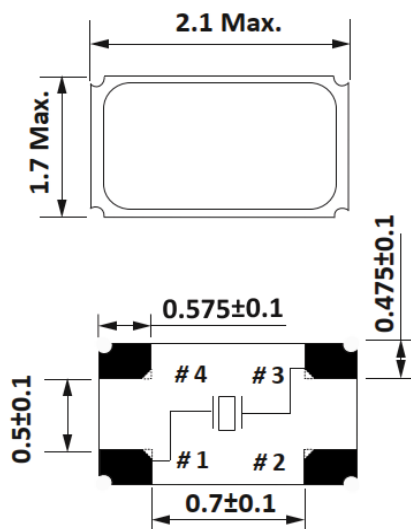
Electrical Specifications

Model	2016
Frequency Range	16 ~ 50MHz
Frequency Tolerance (at 25°C)	±10ppm, ±30ppm, or specify
Frequency Stability Over Operating Temperature Range	±10ppm, ±30ppm, or specify
Operating Temperature Range	-20°C ~ +70°C, -40°C ~ +85°C, or specify
Shunt Capacitance (C0)	3pF Max.
Drive Level	100uW Max.
Load Capacitance	Series, 9pF, 10pF, 12pF, 16pF, 20pF, or specify
Aging (at 25°C)	±3ppm / year Max.
Storage Temperature Range	-55°C ~ +125°C

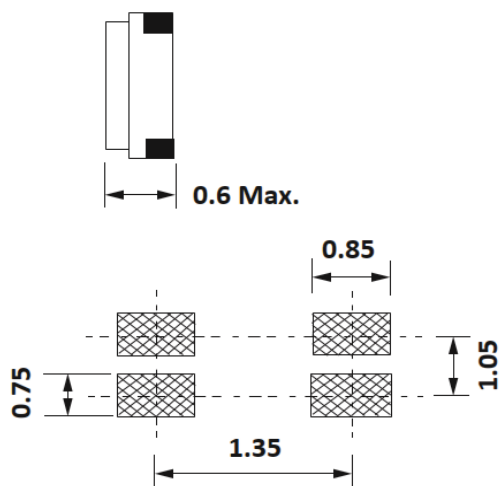
Equivalent Series Resistance (ESR)

Fundamental			
16 ~ 27.12MHz	160Ω Max.	30 ~ 50MHz	80Ω Max.

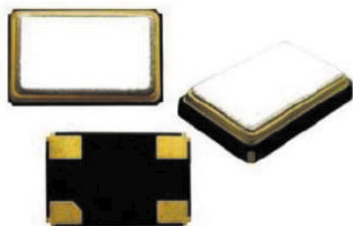
Dimensions : Unit mm



Top View



Suggested Pads



Seam Crystal
1612 Series

- Ultra small SMD type crystal units
- Excellent for reducing EMI effect
- Higher frequency stability and reliability
- High precision characteristic covering up to wide frequency range

Applications: Cellular Phone, GPS, Bluetooth, Wireless LAN, etc.

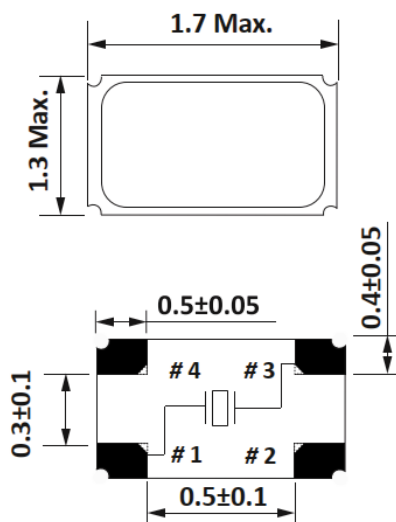
Electrical Specifications

Model	1612
Frequency Range	24MHz / 26MHz / 30MHz / 32MHz
Frequency Tolerance (at 25°C)	±10ppm , ±30ppm, or specify
Frequency Stability Over Operating Temperature Range	±15ppm , ±30ppm, or specify
Operating Temperature Range	-20°C ~ +70°C, -40°C ~ +85°C, or specify
Shunt Capacitance (C0)	3pF Max.
Drive Level	100uW Max.
Load Capacitance	Series, 9pF, 10pF, 12pF, 16pF, 20pF, or specify
Aging (at 25°C)	±3ppm / year Max.
Storage Temperature Range	-55°C ~ +125°C

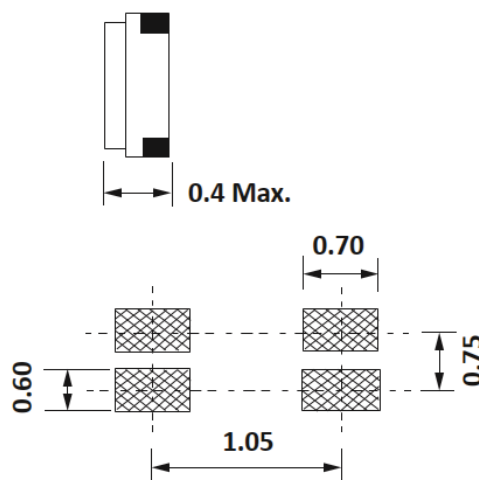
Equivalent Series Resistance (ESR)

Fundamental			
24~ 26MHz	100Ω Max.	30 ~ 32MHz	80Ω Max.

Dimensions : Unit mm



Top View



Suggested Pads