



Features and Benefits

Typical 2.5x2.0x0.45mm ultra-thin ceramic package
8mm width tape and reel package for automatic assembly
Tight tolerance 10ppm available

Typical Applications

Bluetooth, Mobile phone
Wireless LAN
Office automation
Audio and Video

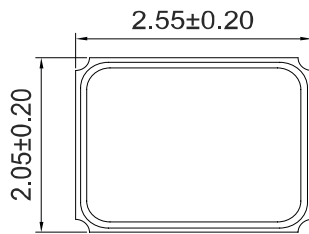
Description

Xtal2520S_series offers Tight tolerance and 2.5x2.0x0.45mm ultra-thin ceramic package. This device is suitable for use under various telecom and network communication applications.

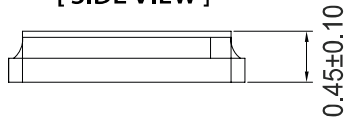
Mechanical Drawing & Pin Connections

Drawing No: MD180002-1

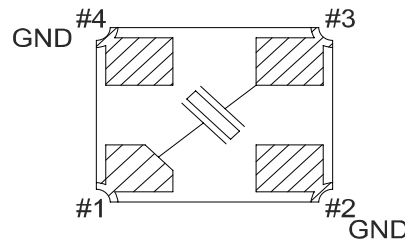
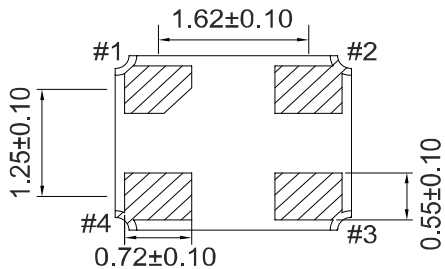
[TOP VIEW]



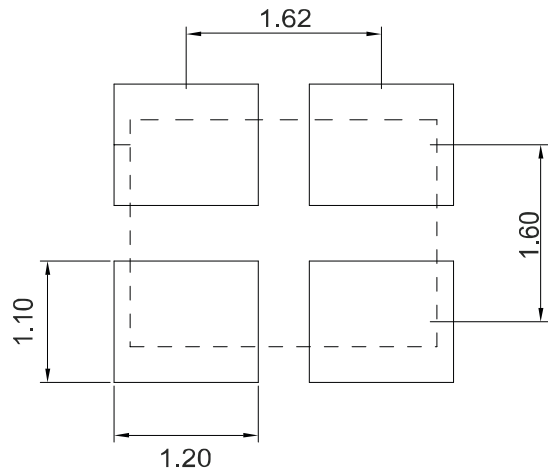
[SIDE VIEW]



[BOTTOM VIEW]



#2 and #4 are connected to the cover (please connect to ground)





Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Storage temperature			-40		125	°C	
Standard Frequency			16,24,26,40			MHz	
Level of drive				10	200	uW	
Shunt capacitance	C0				3.0	pF	
Insulation resistance			500Mohm@DC 100V				
Equivalent Series Resistance(ESR)		12 MHz ≤ F ₀ < 20 MHz			150	ohm	
		20 MHz ≤ F ₀ ≤ 30 MHz			80		
		30 MHz < F ₀ ≤ 54MHz			60		
Aging			±1.0 to ±3.0			ppm/year	

Ordering Options Availability

Frequency Stability [ppm]	Operating Temperature Range [°C]		
	-10 ~ +60	-20 ~ +70	-40 ~ +85
±5	Conditional	Not Available	Not Available
±10	Available	Conditional	Not Available
±15	Available	Available	Conditional

Frequency Stability [ppm]	Operating Temperature Range [°C]	
	-40 ~ +105	-40 ~ +125
±15	Conditional	Not Available
±20	Available	Not Available
±30	Available	Conditional
±50	Available	Available

Not all combinations of temperature range and stability are available. Please consult DEI for details.