

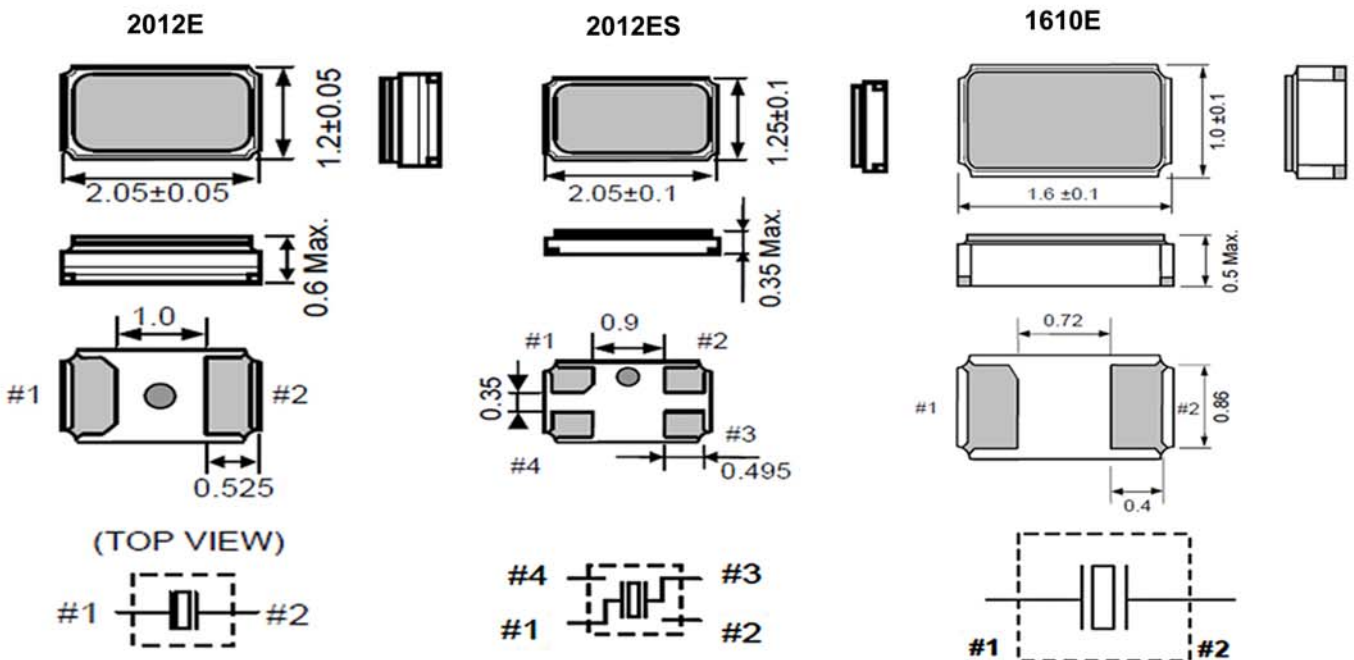
2012E,2012ES,1610E Series: Tuning Fork SMD Quartz Crystal

32.768KHz

● SPECIFICATION

Type	2012E	2012ES	1610E
Frequency range	32.768KHz		
Load Capacitance	12.5pF	7pF,9pF,12.5pF	9pF,12.5pF
Drive Level	0.5μW max.	0.25μW max.	0.5μW max.
Frequency Tolerance	±20ppm		
Series Resistance	90KΩ	75KΩ	90KΩ
Turnover Temperature	25±5°C		
Temperature Coefficient	-0.04 ± 0.01 PPM / °C ² max.		
Operating Temperature Range	-40°C ~ +85°C		
Storage Temperature Range	-55°C ~ +125°C		
Motional Capacitance	6.4fF Typical	3.7fF Typical	6.0fF Typical
Shunt Capacitance	1.3 pF typ.	0.8 pF typ.	1.2pF typ.
Insulation Resistance	500 MΩ min.		
Aging	±3ppm/Year max.		

● DIMENSION (mm)



● RECOMMENDED LAND PATTERN

