

TECH TIME COPRATION LTD.

Company presentation

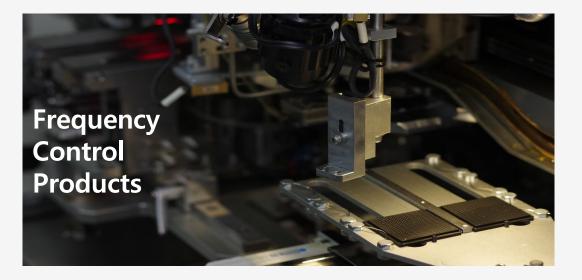
Tech time Corp. is a manufacturer of timing components specializing in

Frequency Control Products. We focus on providing high quality products and excellent customer service
to our customers to be a global leading company.

1. Introducing Tech time Business

Tech time is Israeli company that manufacture in Korea Facility that specializes in developing and manufacturing crystal units & oscillators.

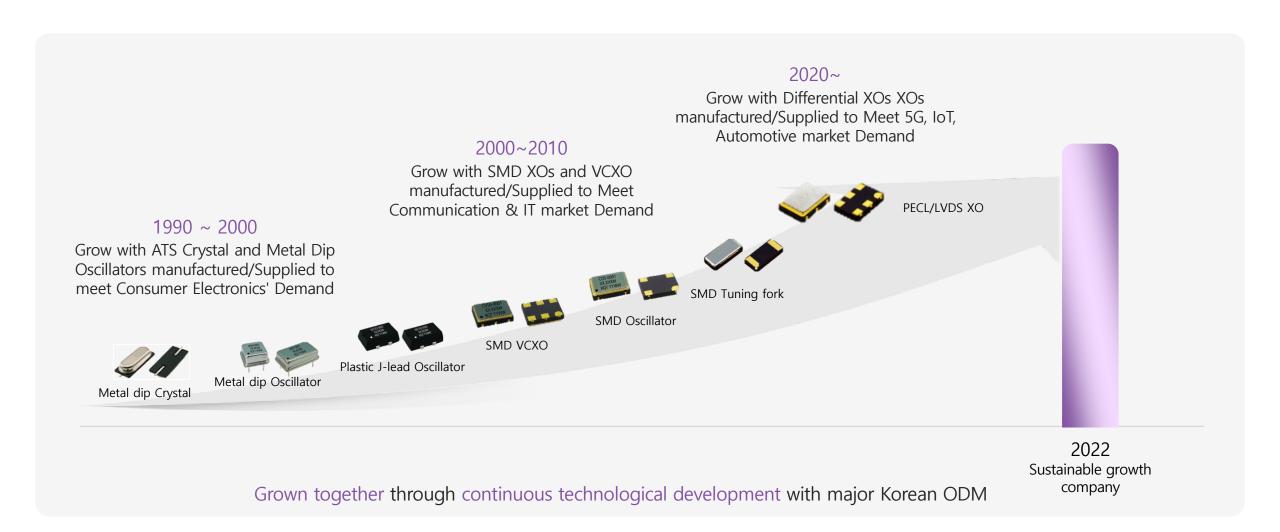




Crystal units and oscillators are electronic components made with using quartz. It is an integral part of all electronics and acts as the heart of the system so that the logic circuit can synchronize with a constant clock signal.

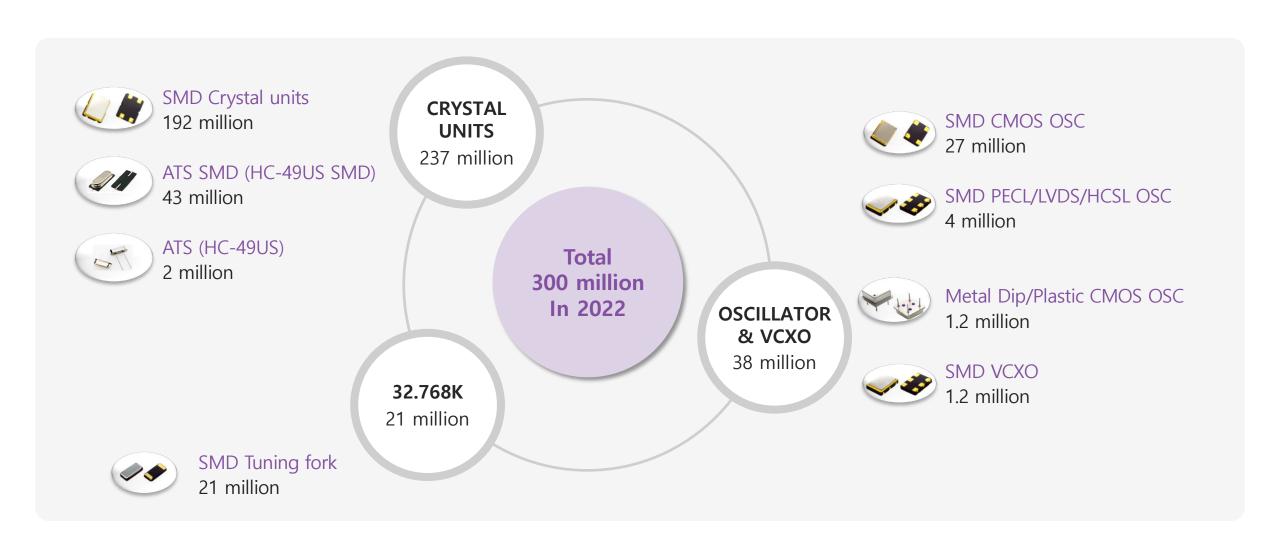
3. Introducing Electronics Division

Our capabilities to develops and manufactures crystal units and oscillators, in high volume in Korea facility



5. Sales number in 2022

Electronics Division sales number was total 300 million in 2022.



7. Market Application

Crystal units and oscillator products are widely used for industrial, communications, automotive, ETC.









8-1. Market-specific applicable products - Communication

We are developing and supplying high-performance products that meet the demand of the 5G market







OPTICAL COMMUNICATION



REPEATER



DATA CENTER



S3, S32 S216 small size 2x1.6,2.5x2 series
Crystal unit



V71 KPV series VCXO



C67,C95 C63series 2.5X2~7X5

Differential output oscillator

8-3. Market-specific applicable products – Consumer

Develop and supply optimized products to meet changing demands through the connection between IoT and wireless communication.







GAME CONSOLE



VIDEO / AUDIO



WEARABLE



S32,S3,S36 series
Crystal unit 2X1.6~5X7 size



FS series 32.768kHz Crystal 2X1.6 mm size



C67,C95,C63C25 series

Crystal oscillator

2.5X2~5X7 size

8-4. Market-specific applicable products – Industrial

Develop and supply products that meet the wide temperature range and high reliability required by the latest industrial markets.



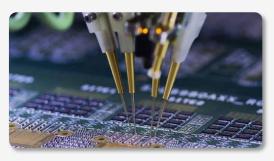
FACTORY AUTOMATION



INDUSTRIAL ROBOT



SMART CITY



TEST AND MEASUREMENT



S32, S36,S3.S216 series Crystal unit

2X1.6~5X7 mm size



FS series
32.768kHz Crystal
2X1.6 MM SIZE

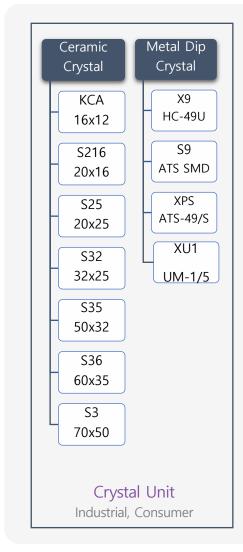


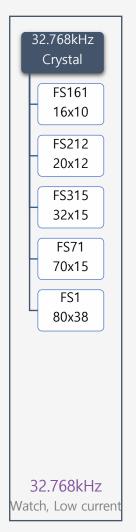
C67,C95,C25,C36 series

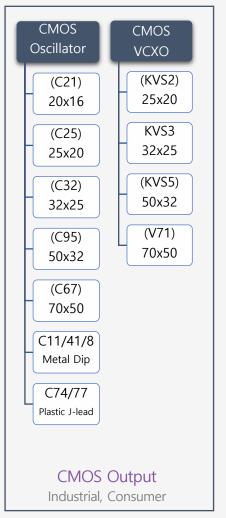
Crystal oscillator 2.5X2~5X7 mm size

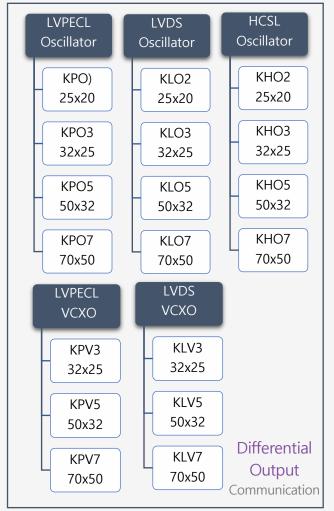
9. Product Portfolio

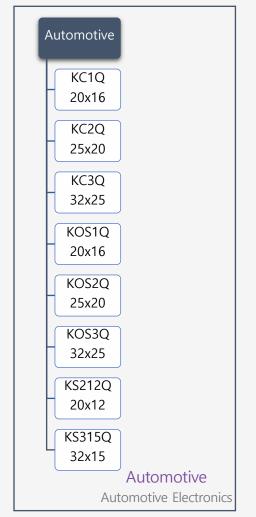
We provide a solution with our various products to meet the latest market demands.



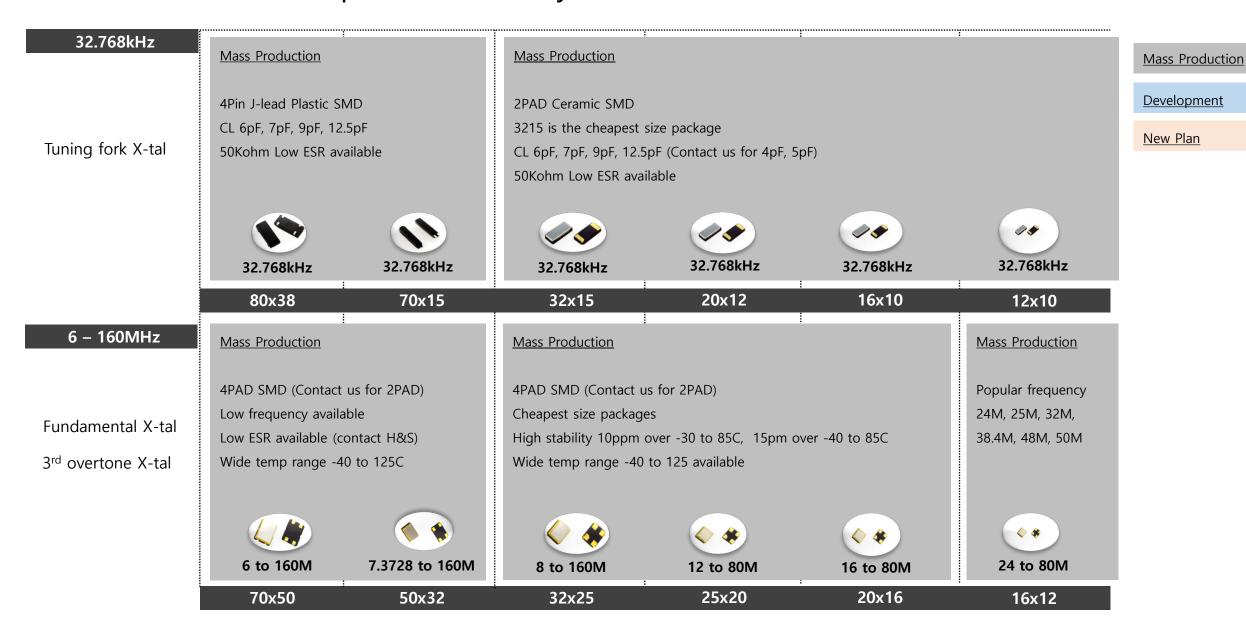








10. Product Roadmap - Ceramic Crystal & 32.768kHz



Mass Production

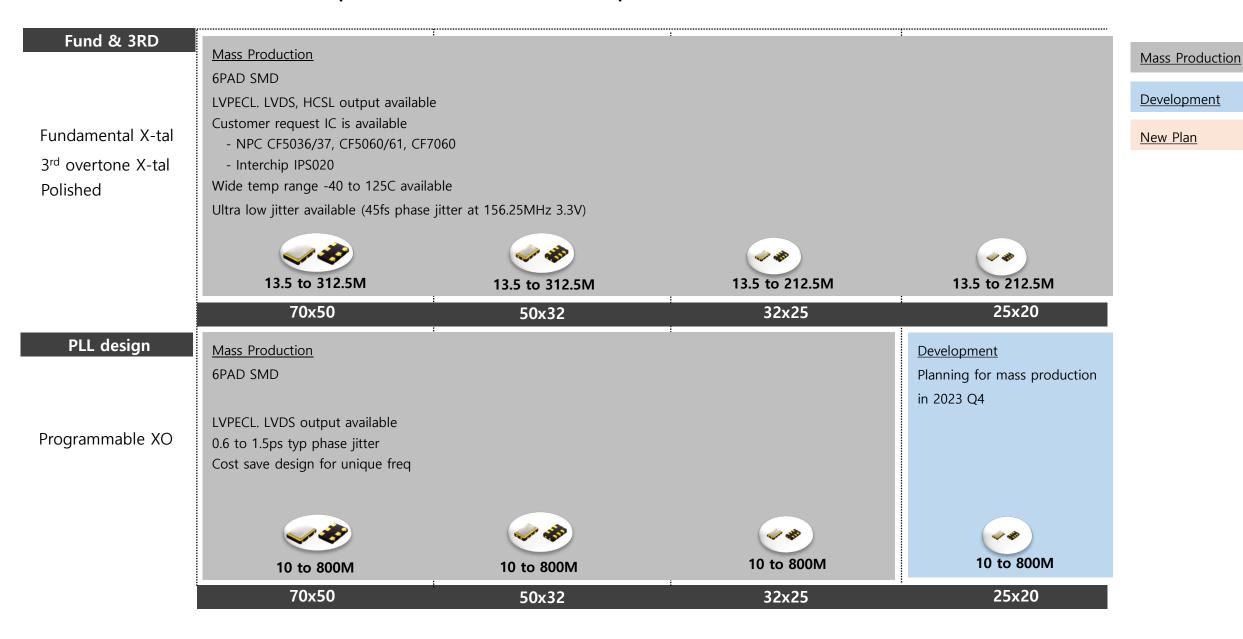
Development

New Plan

10. Product Roadmap - CMOS Output

Oscillator PLL design	Mass Production 6PAD SMD 10 to 250M	0.6 to 1.5ps jitter Quick delivery 10 to 250M	10 to 250M	Development Planning for mass production in 2023 Q4 10 to 250M		
Fundamental X-tal 3 rd overtone X-tal	Mass Production Customer request IC is available (NPC, Raystar, Interchip) 3225 is the cheapest size package Semi-TCXO 10ppm over -40/85C available (20 to 50M) 0.25 to 312.5M 0.25 to 312.5M 0.25 to 312.5M 0.25 to 312.5M 0.25 to 310.5M				<u>Development</u> Sample available 4PAD SMD 0.25 to 125M	Mass Production Metal & Plastic type 0.25 to 312.5M
	70x50	50x32	32x25	25x20	20x16	Metal / K615
VCXO PLL design	Mass Production 6PAD SMD 10 to 250M	0.6 to 1.5ps jitter Cost save design for unique freq 10 to 250M	10 to 250M	Development Planning for mass production in 2023 Q4 10 to 250M	New Plan SOP type Programmable XO Automotive application & quick delivery Planning for mass production in 2024	
Fundamental X-tal Mesa HFF blank	Mass Production 6PAD SMD 1 to 170M	Mesa HFF for 80 to 170M Good phase noise / jitter 1 to 170M 1 to 170M		<u>Development</u> Sample available 6PAD SMD 1 to 80M	Package size 7050, 5032, 3225, 2520	
	70x50	50x32	32x25	25x20	ET	· · · · · · · · · · · · · · · · · · ·

10. Product Roadmap - Differential Output



10. Product Roadmap - Automotive

