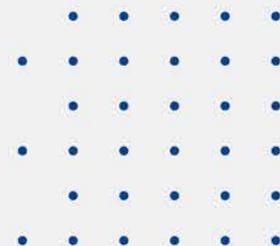
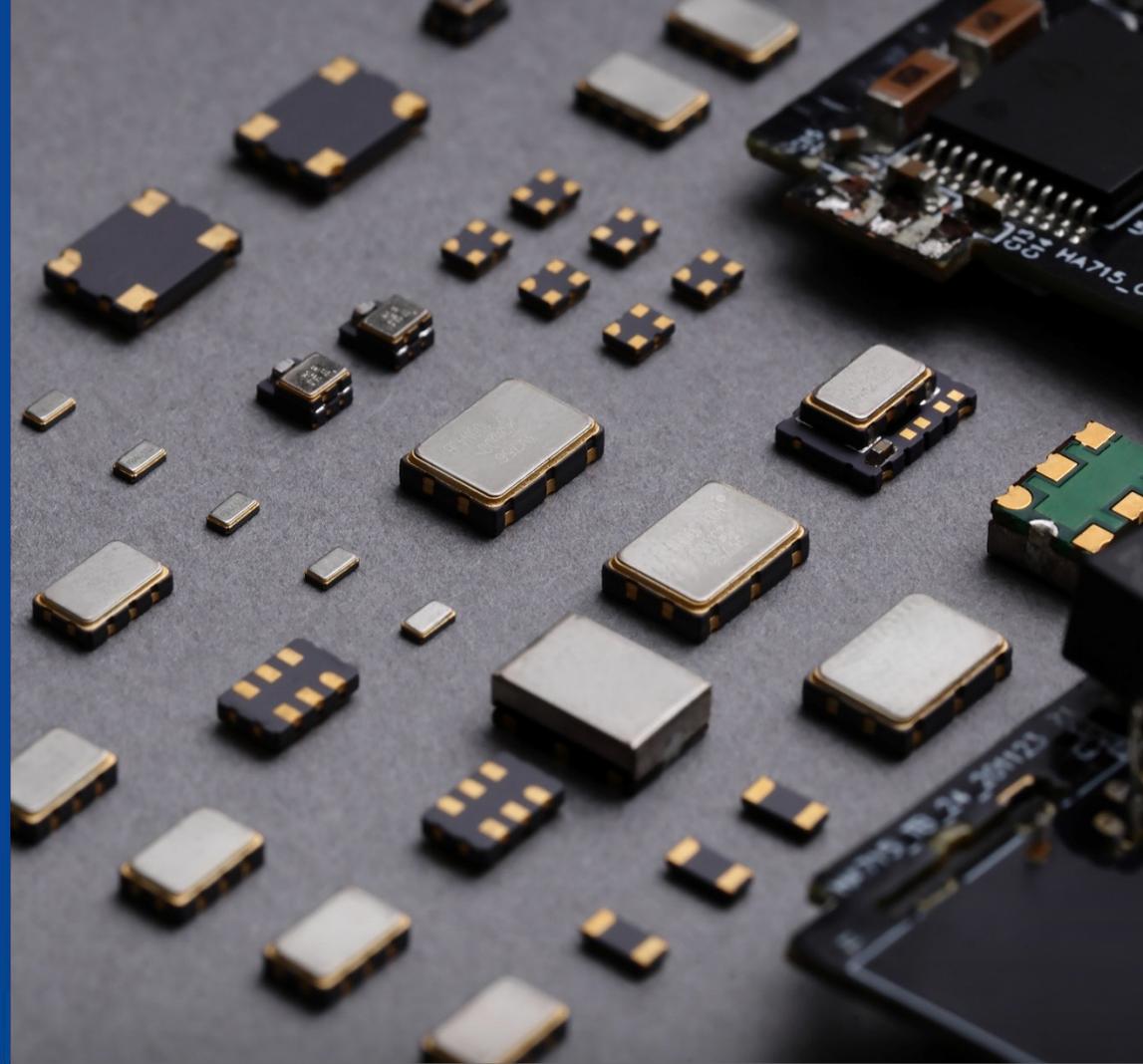


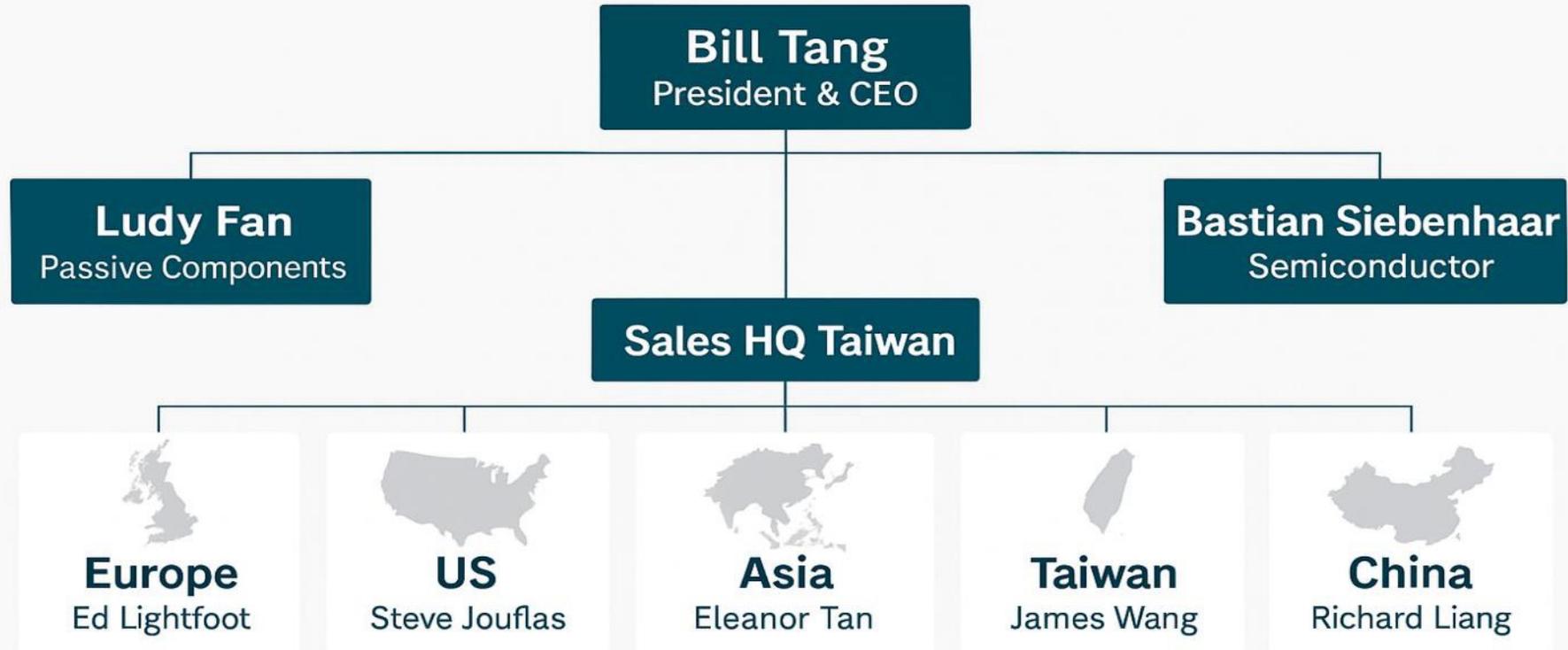


HOLY STONE TIMING DEVICE PORTFOLIO

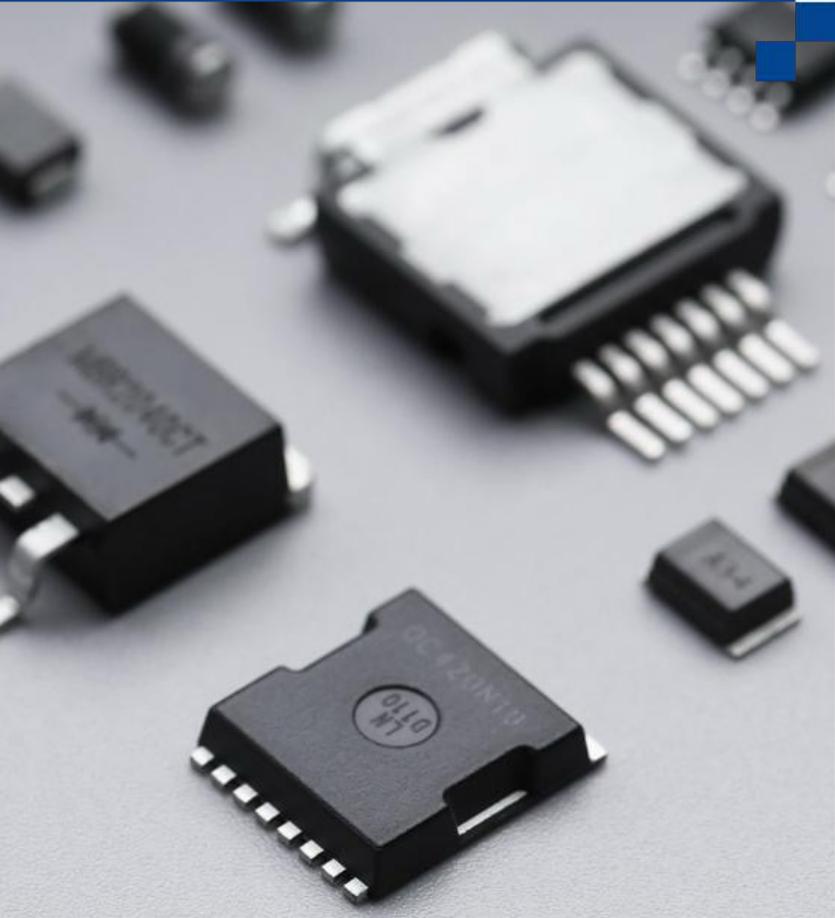




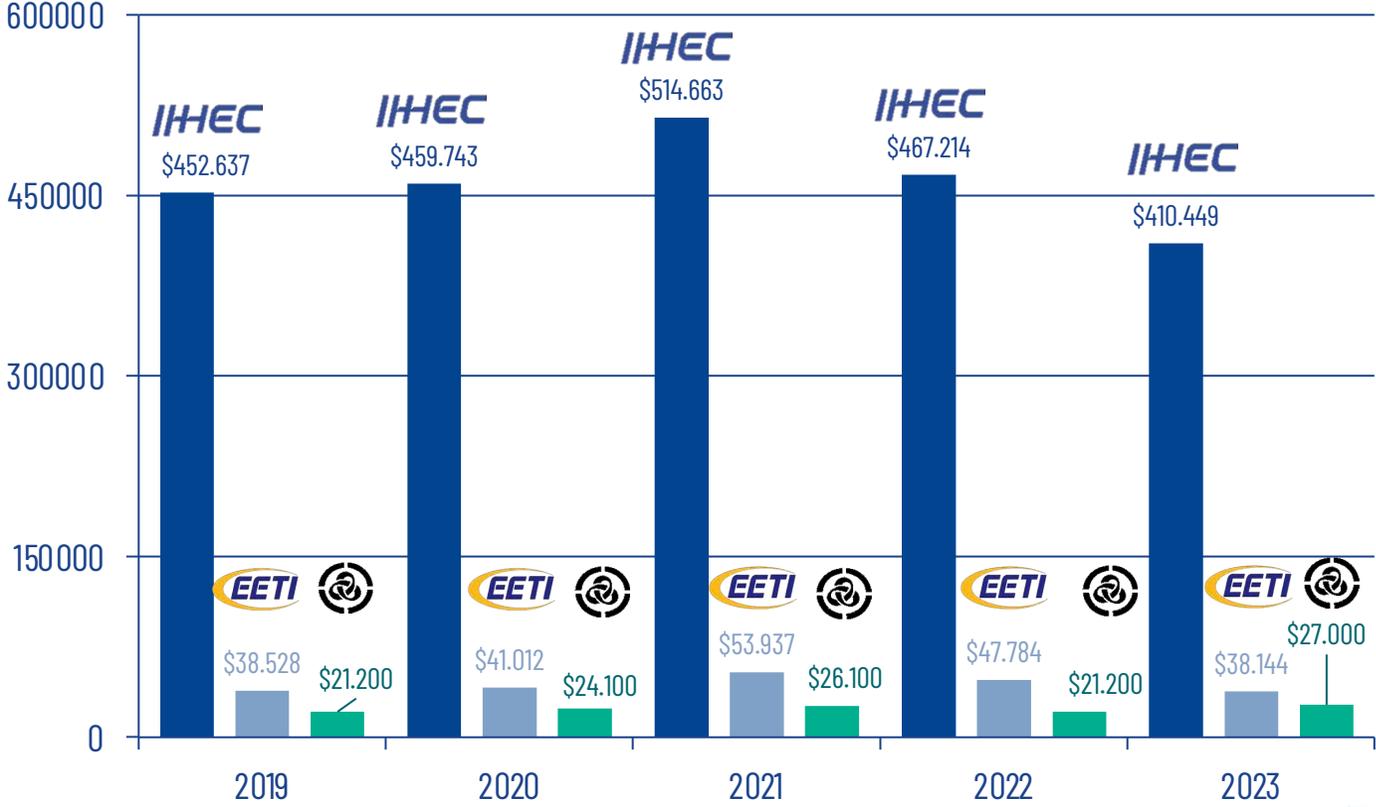
HOLY STONE ENTERPRISE CO., LTD.



HOLY STONE ENTERPRISE

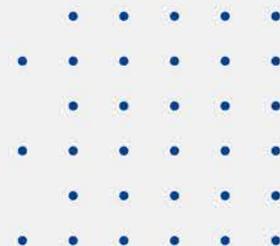
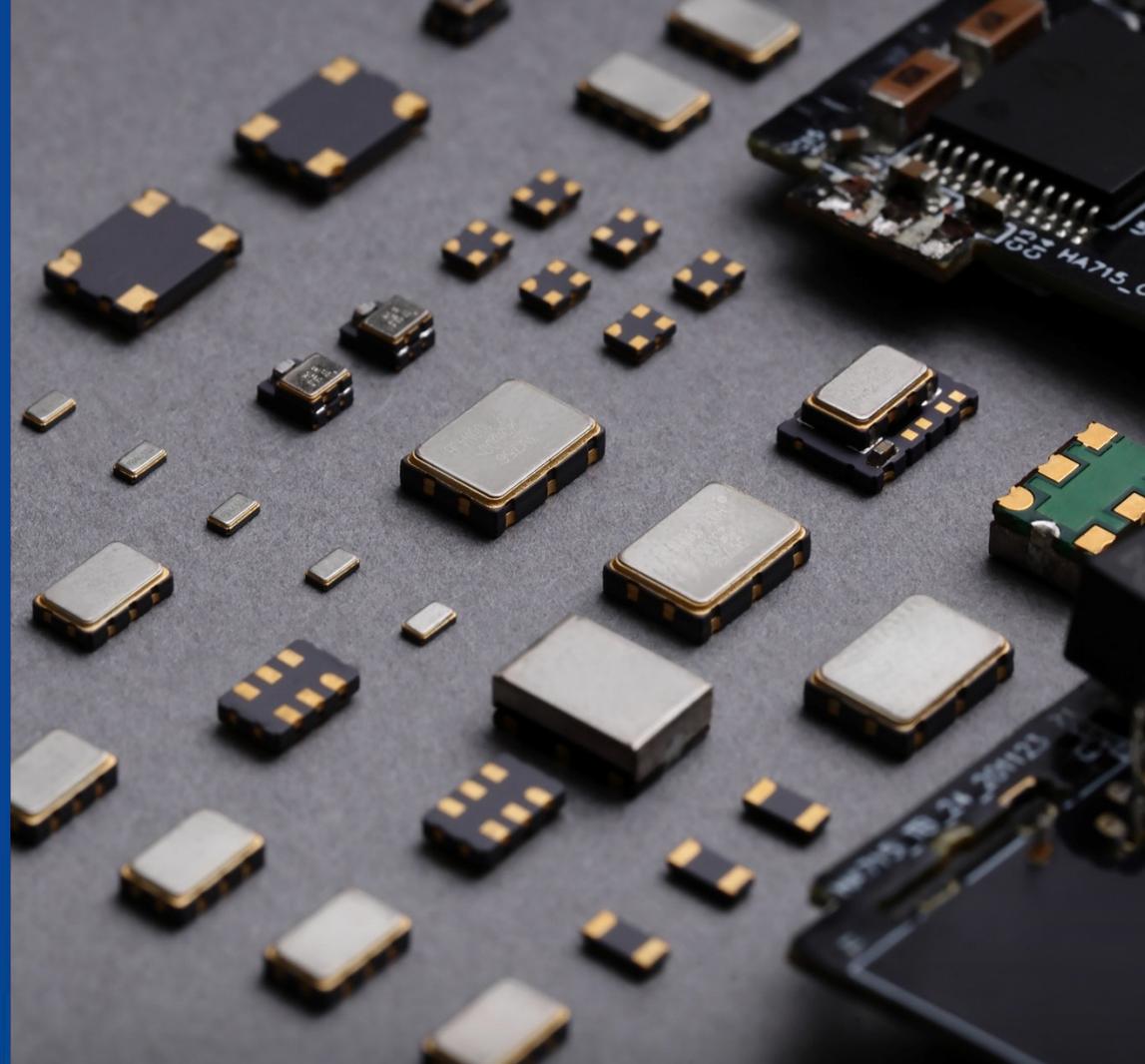


Sales revenue in thousand USD

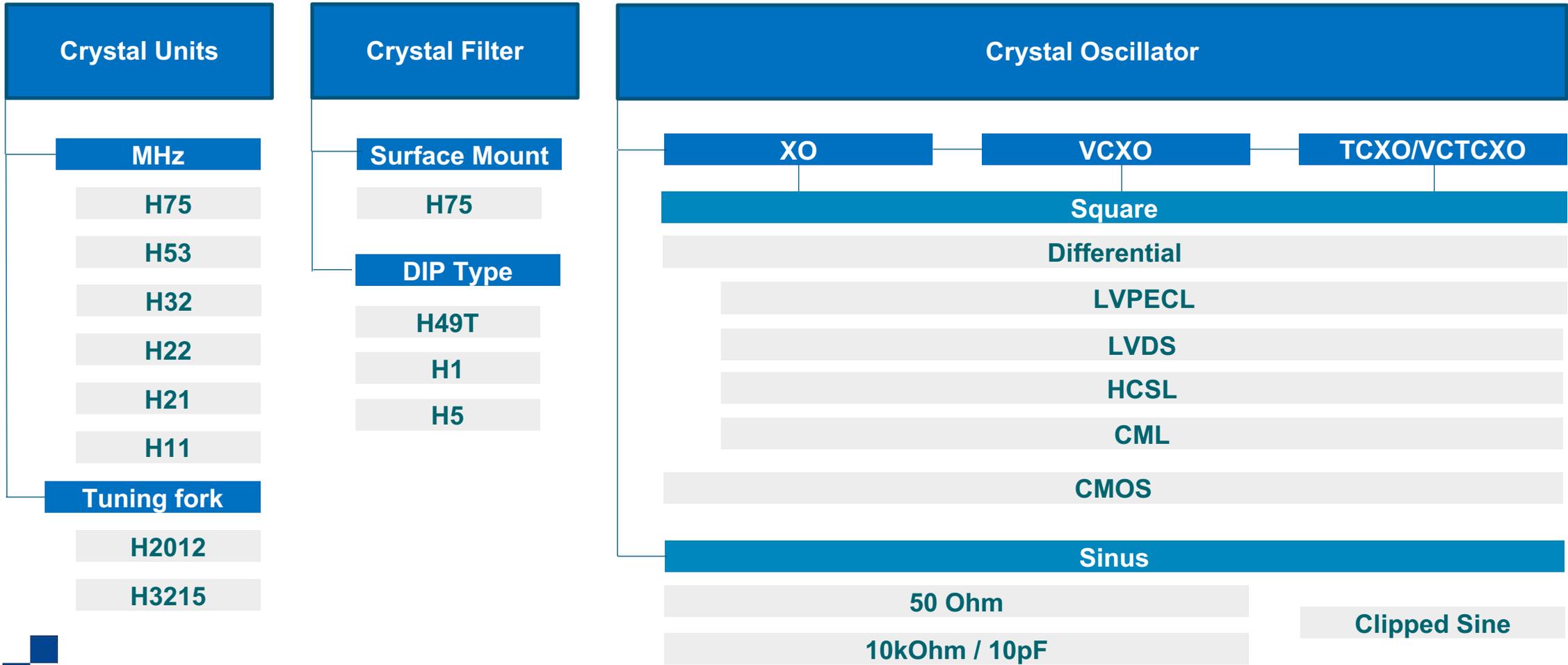




HOLY STONE TIMING DEVICE PORTFOLIO

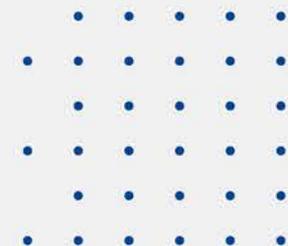
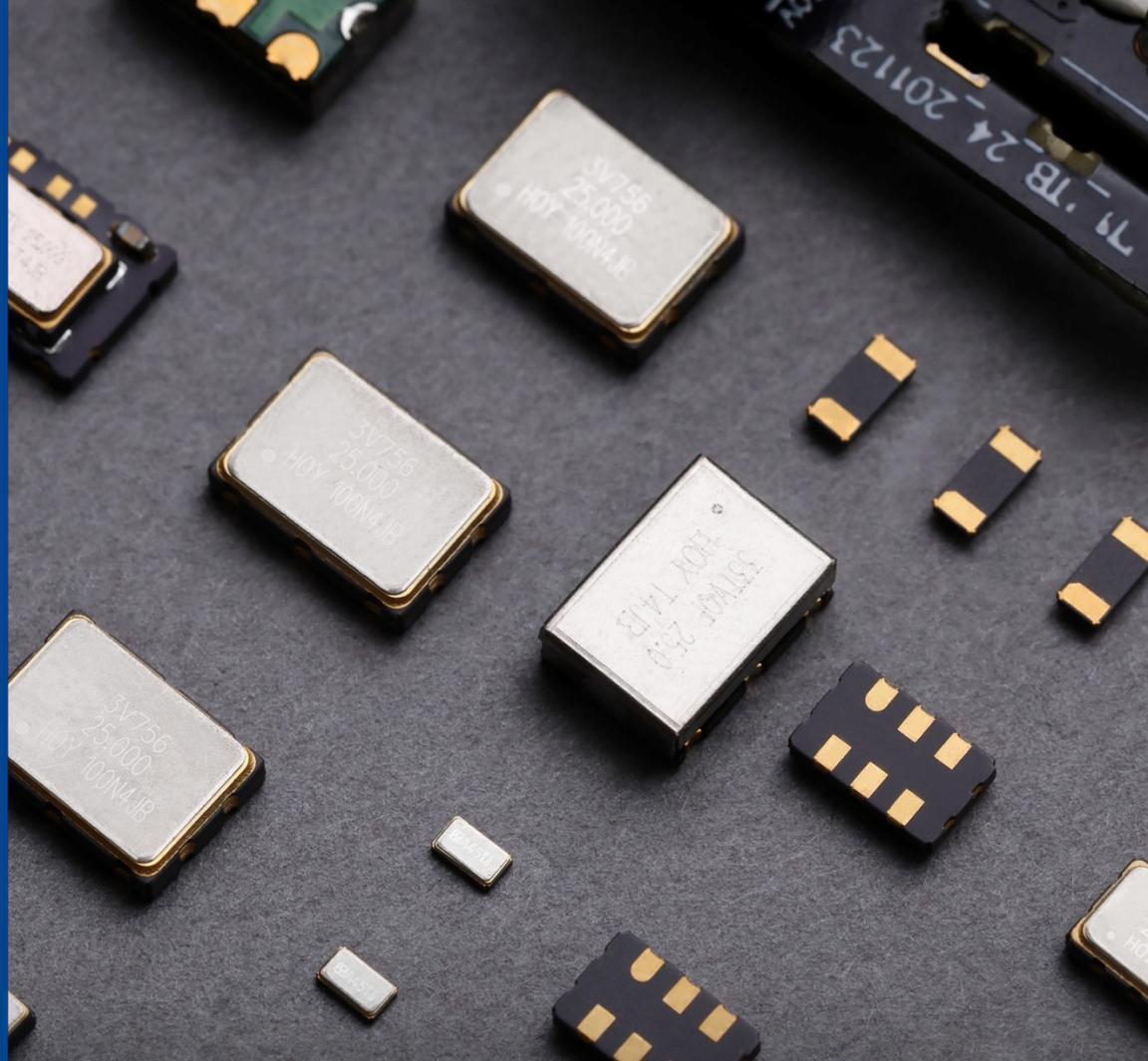


Main Product Portfolio



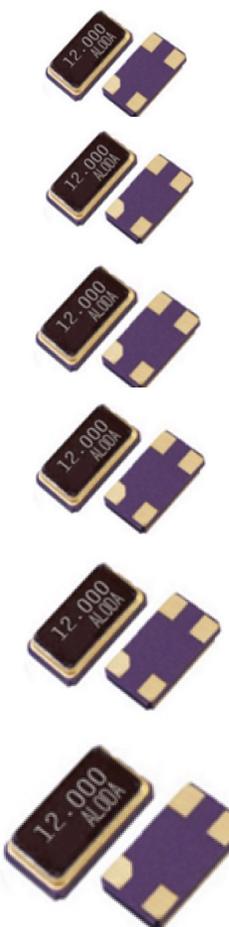


CRYSTAL PORTFOLIO



CRYSTAL PORTFOLIO



- 
- 1.6 x 1.2 x 0.4
 - 2.0 x 1.6 x 0.5
 - 2.0 x 1.2 x 0.55
 - 2.5 x 2.0 x 0.6
 - 3.2 x 1.5 x 0.8
 - 3.2 x 2.5 x 0.7
 - 5.0 x 3.2 x 0.8
 - 7.0 x 5.0 x 1.0
 - 11.4 x 5.0 x 4.0 / 5.0
 - 12.4 x 4.5 x 3.0 / 4.0
 - 12.9 x 4.5 x 4.0 / 5.0



Basic configuration



Frequency range from 32.768kHz up to 200MHz



Special features



Automotive (AECQ)

8-32pF resonance

10ppm – 30ppm Tolerance

10ppm-30ppm Stability

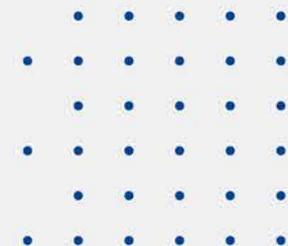
5ppm Stability on request



OSCILLATOR PORTFOLIO



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XO PORTFOLIO



2.0 x 1.6 x 0.8



2.5 x 2.0 x 0.8/0.9/1.0



3.2 x 2.5 x 1.0



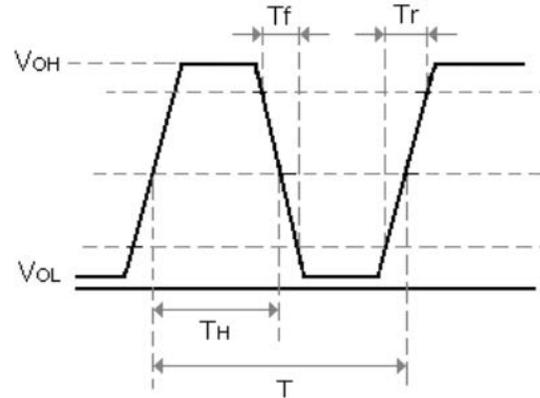
5.0 x 3.2 x 1.2/1.4



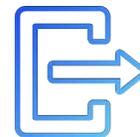
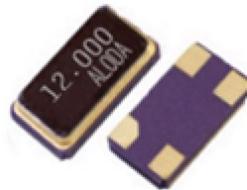
7.0 x 5.0 x 1.3/1.4/1.7



Basic configuration



Frequency range from 0.3MHz up to 1.5GHz



CMOS
HCSL
LVDS
LVPECL
CML
True Sine



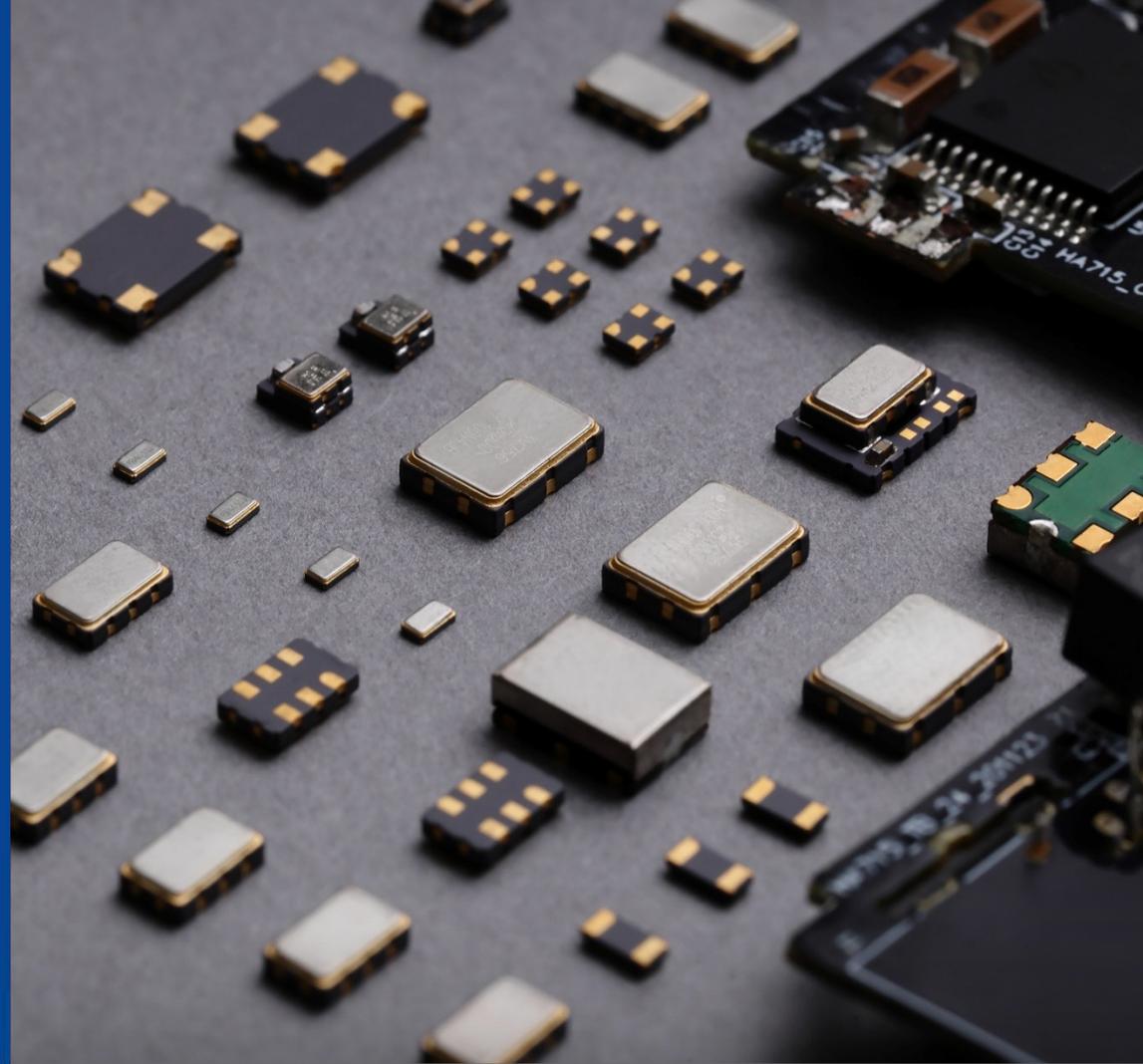
Special features



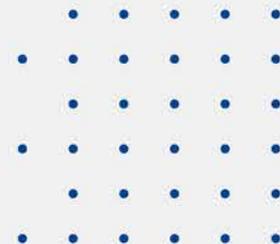
- Programmable
- Automotive (AECQ)
- Low Jitter
- Freq. switch option
- EMI Reduction
- Low power consumption
- Clock buffer
- Wide temperature range



VCXO PORTFOLIO



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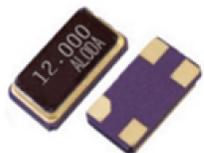
VCXO PORTFOLIO



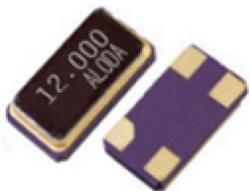
2.5 x 2.0 x 1.0



3.2 x 2.5 x 1.0



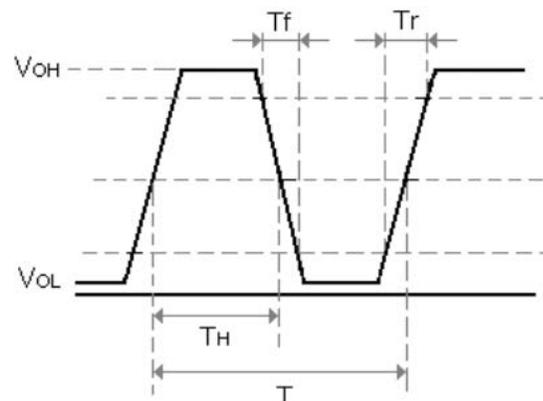
5.0 x 3.2 x 1.2/1.4



7.0 x 5.0 x 1.7



Basic configuration



Frequency range from 10MHz up to 1.5GHz



CMOS
HCSL
LVDS
LVPECL
CML
True Sine

Special features

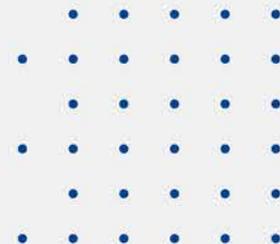
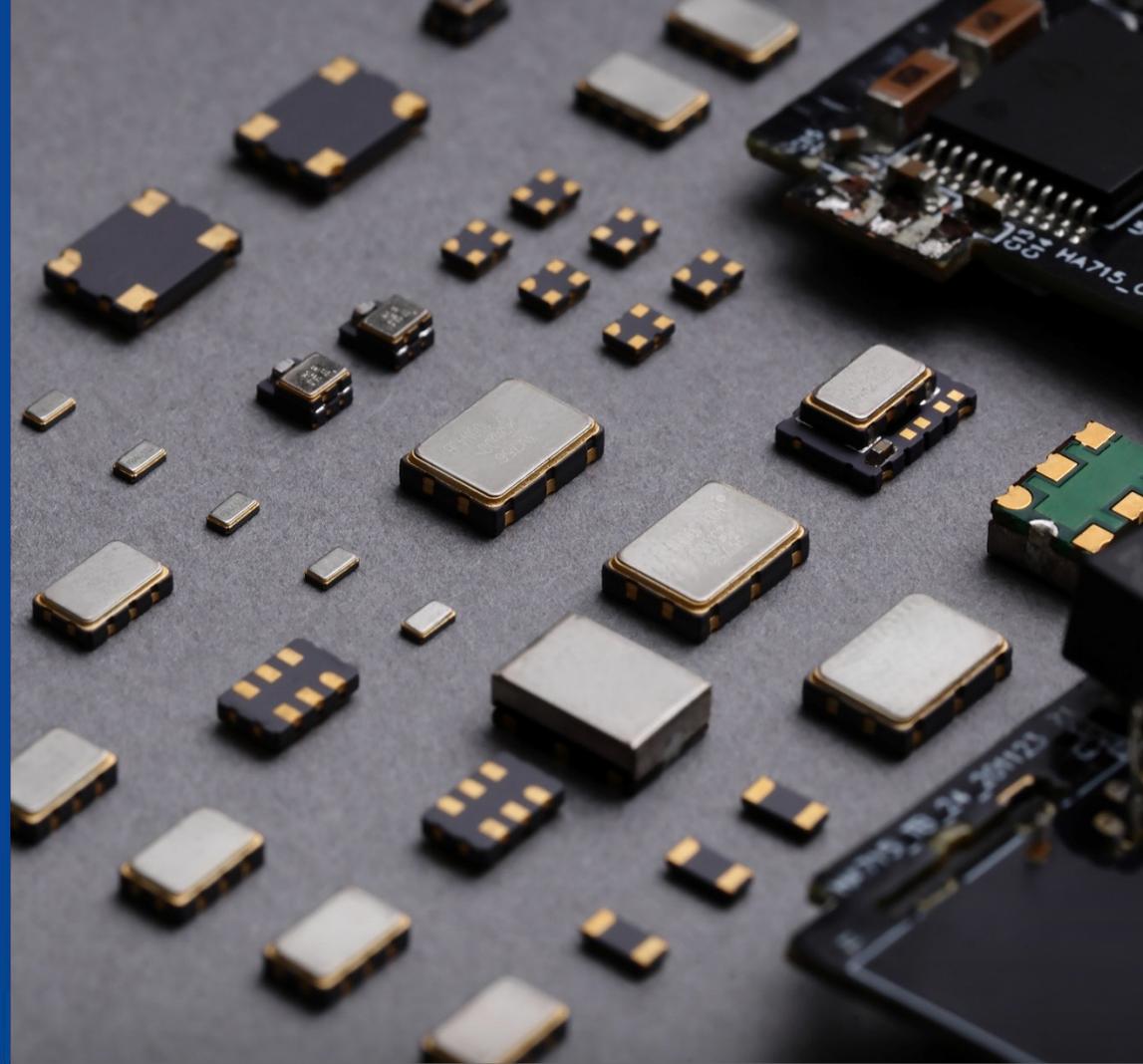
Programmable

Low Jitter

Freq. switch option



TCXO / VCTCXO PORTFOLIO



TCXO / VCTCXO PORTFOLIO



2.0 x 1.6 x 0.7



2.1 x 1.3 x 1.1



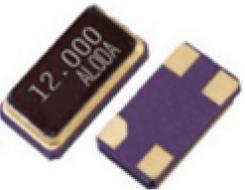
2.5 x 2.0 x 0.8



3.2 x 2.5 x 1.x



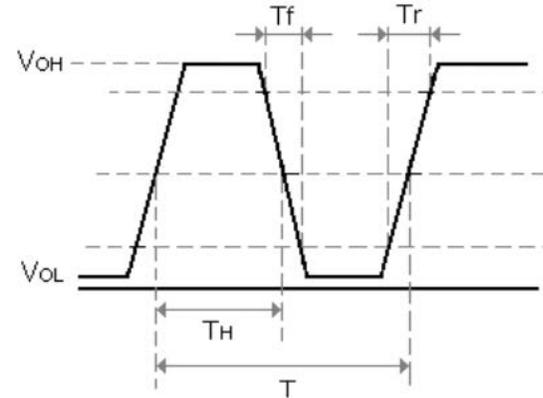
5.0 x 3.2 x 1.x



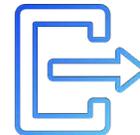
7.0 x 5.0 x 2.x



Basic configuration



Frequency range from 32.768kHz up to 1.5GHz



CMOS
HCSL
LVDS
LVPECL
CML
Clipped Sine

Special features

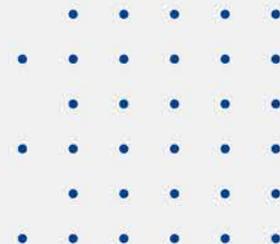
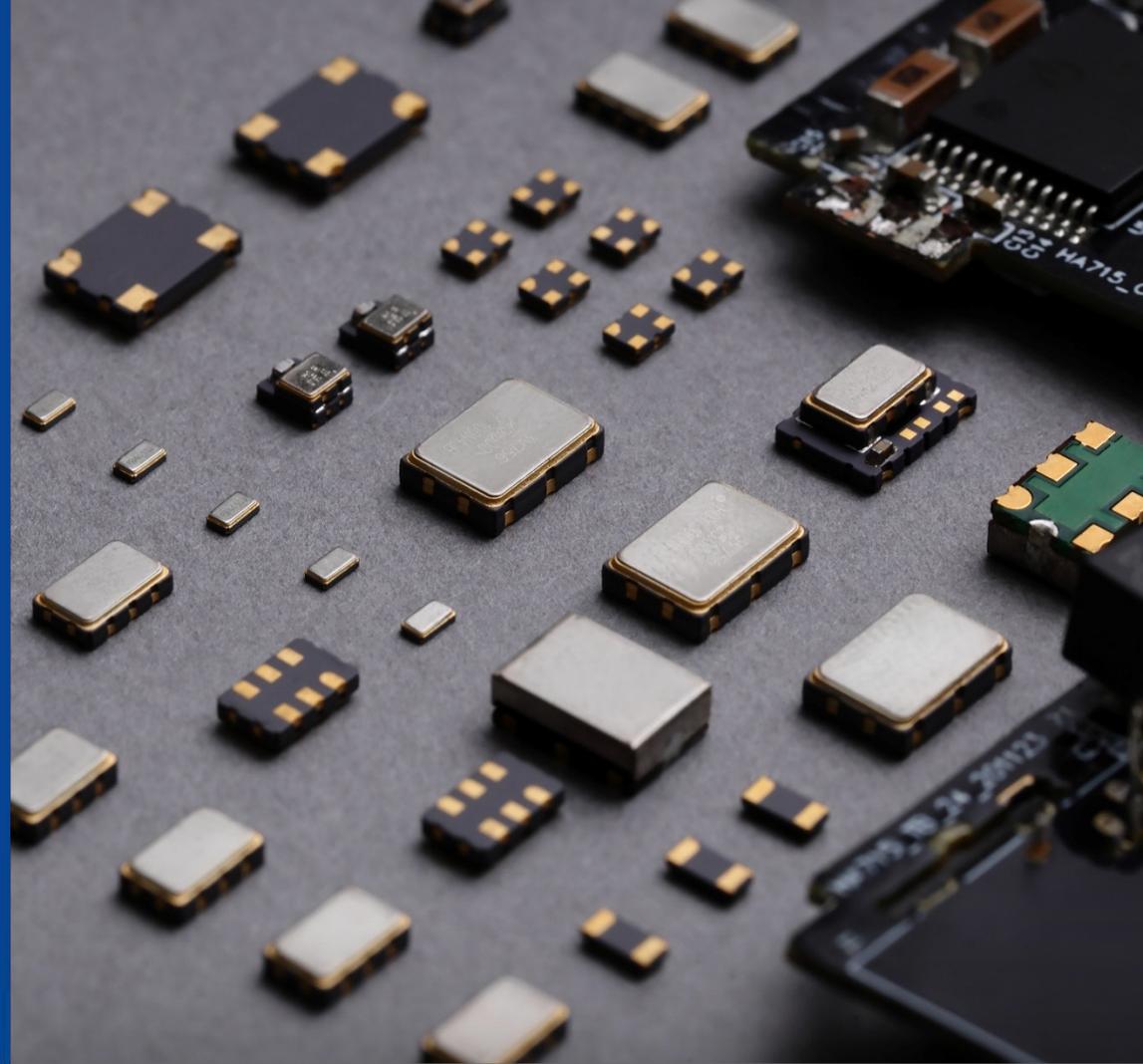
Programmable

Low Jitter

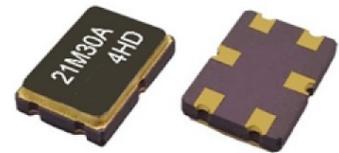
Low current



CRYSTAL FILTER PORTFOLIO



MONOLITHIC CRYSTAL FILTER



Basic configuration

H49T-series

DIP Type
10.695MHz – 10.800MHz

HUx-series

DIP Type
21.4MHz, 45MHz

HMQ-series

SMD Type
21.4MHz, 21.7MHz, 45MHz

Special features

Tandem / Pair

Adj. Pass band width



THANK YOU

