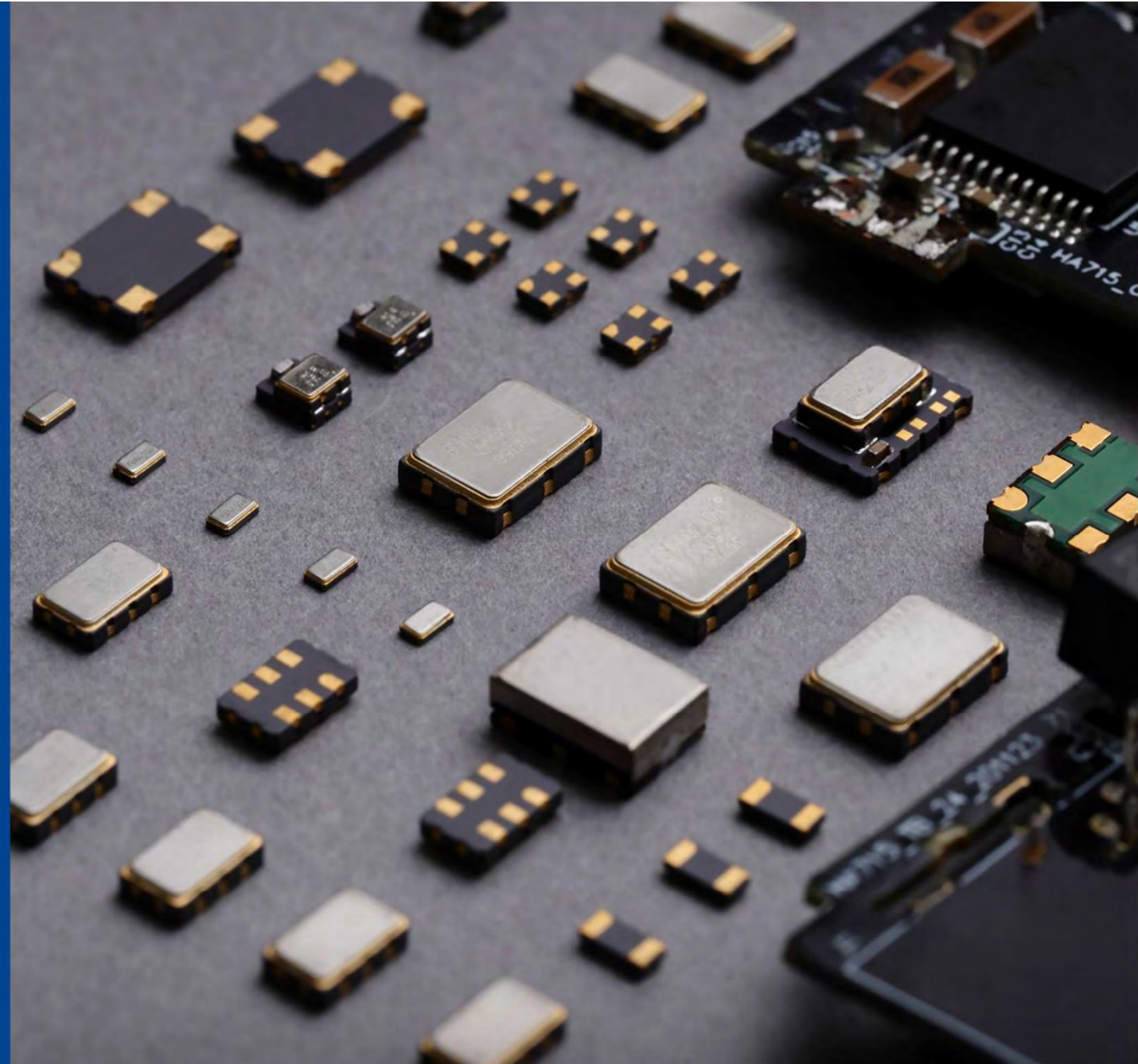
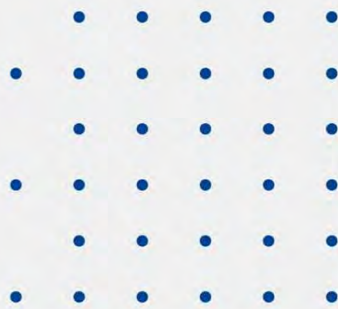




HOLY STONE TIMING DEVICE PORTFOLIO



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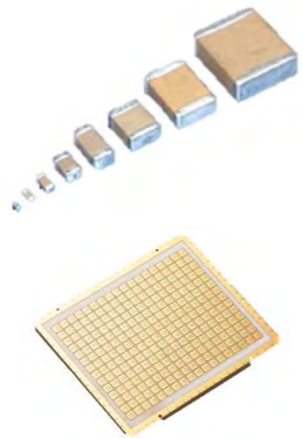
HOLYSTONE ENTERPRISE CO., LTD.



Passive Components

Own factory

IHEC



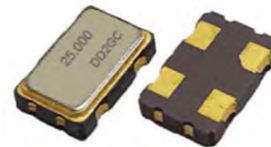
Semiconductor

Subsidiary

EETI



Cooperation



Close Partner



Investment

Investment/Partner

GSI TECHNOLOGY



Investment/Partner

WoMaster

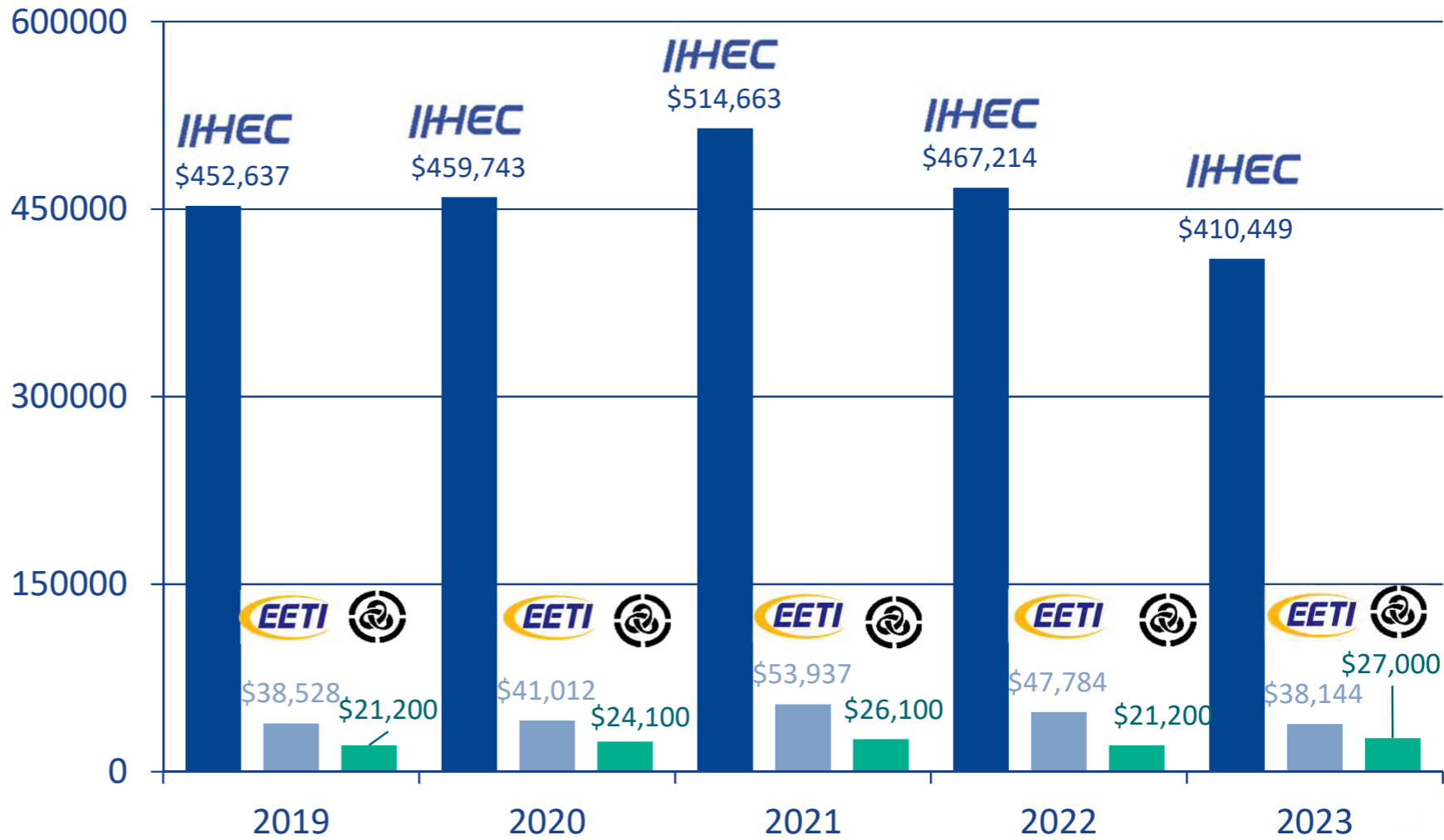




HOLY STONE ENTERPRISE

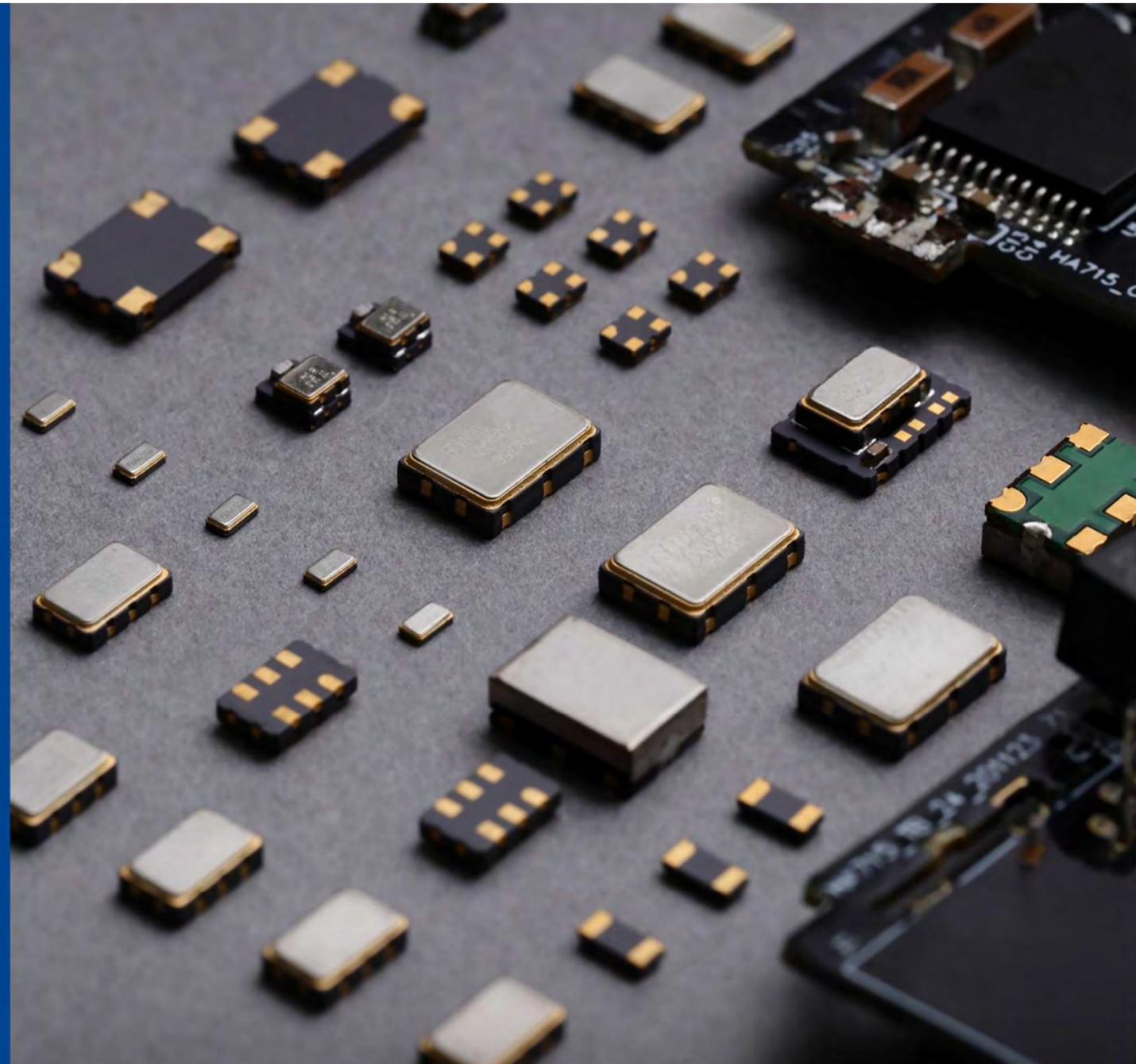


Sales revenue in thousand USD

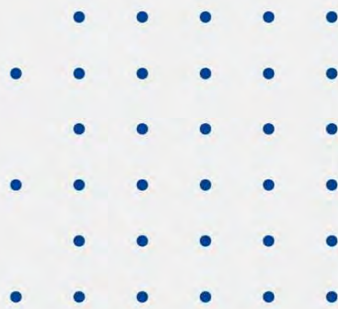




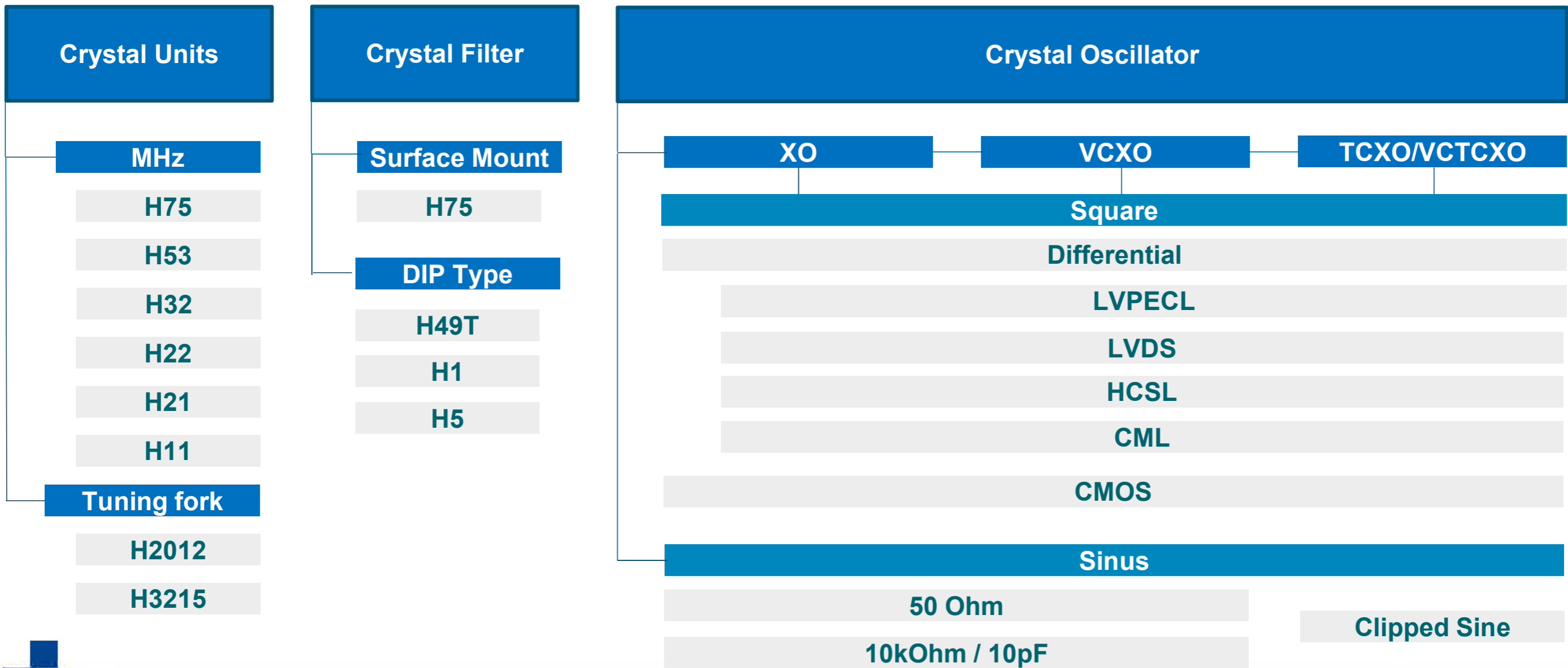
HOLY STONE TIMING DEVICE PORTFOLIO



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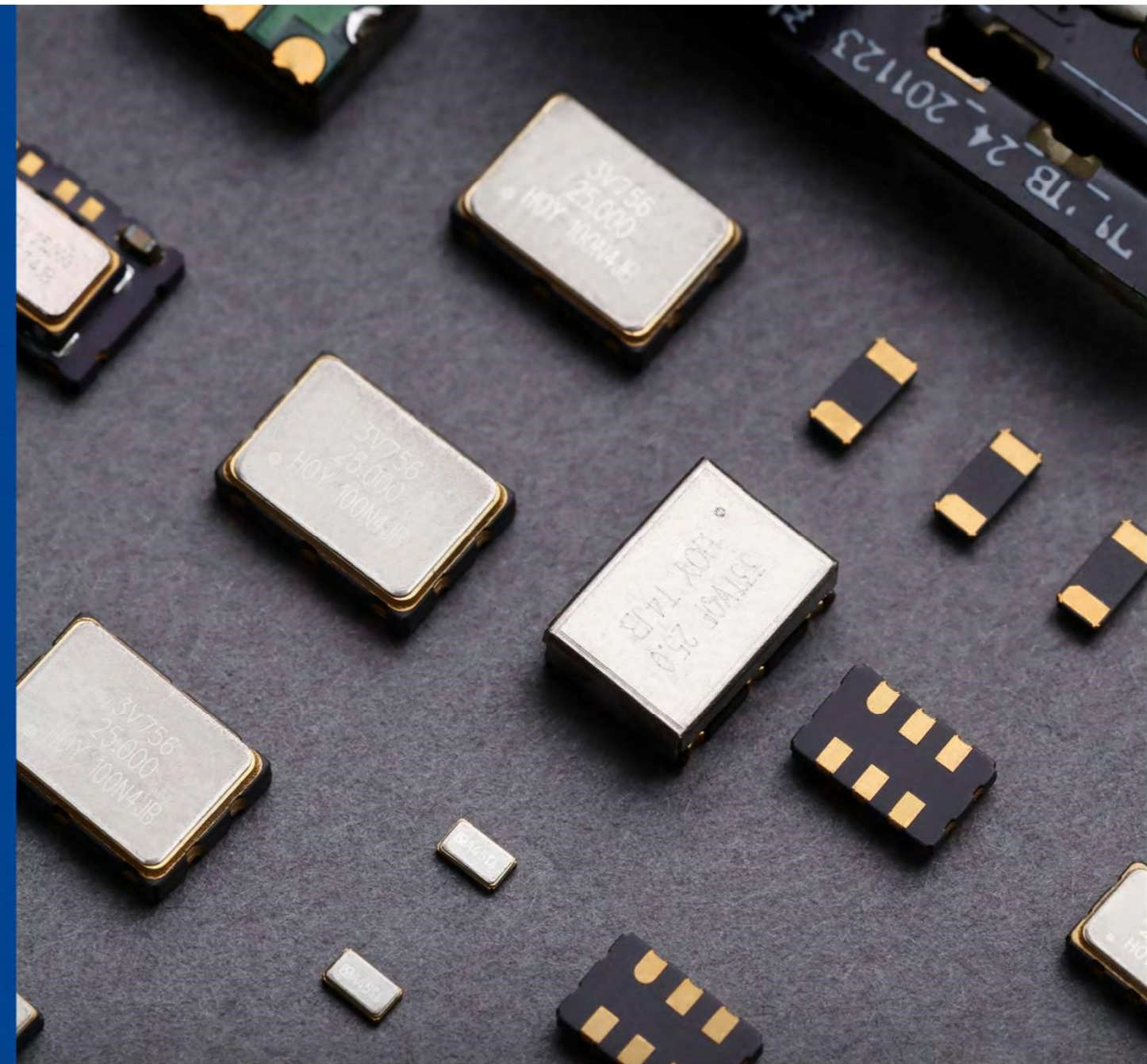


Main Product Portfolio

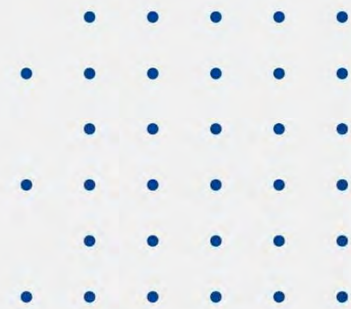




CRYSTAL PORTFOLIO



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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

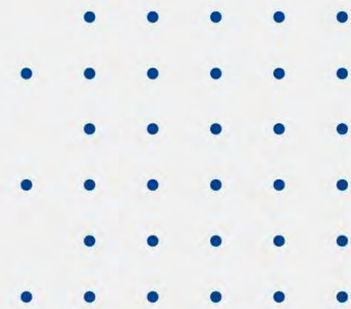
5ppm Stability on request



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



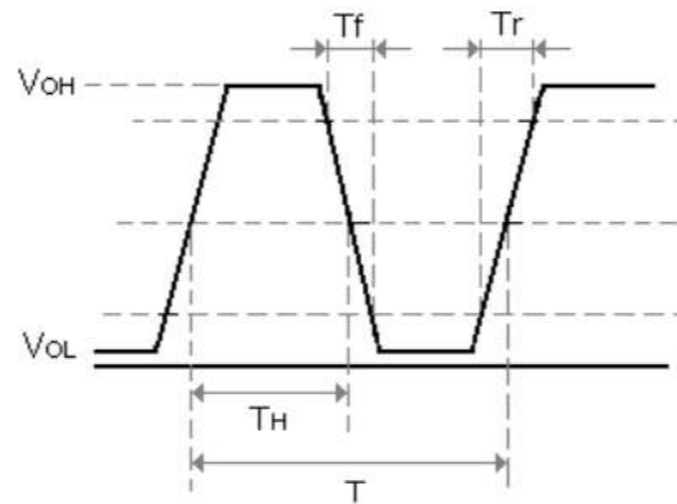
5.0 x 3.2 x 1.2/1.4



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



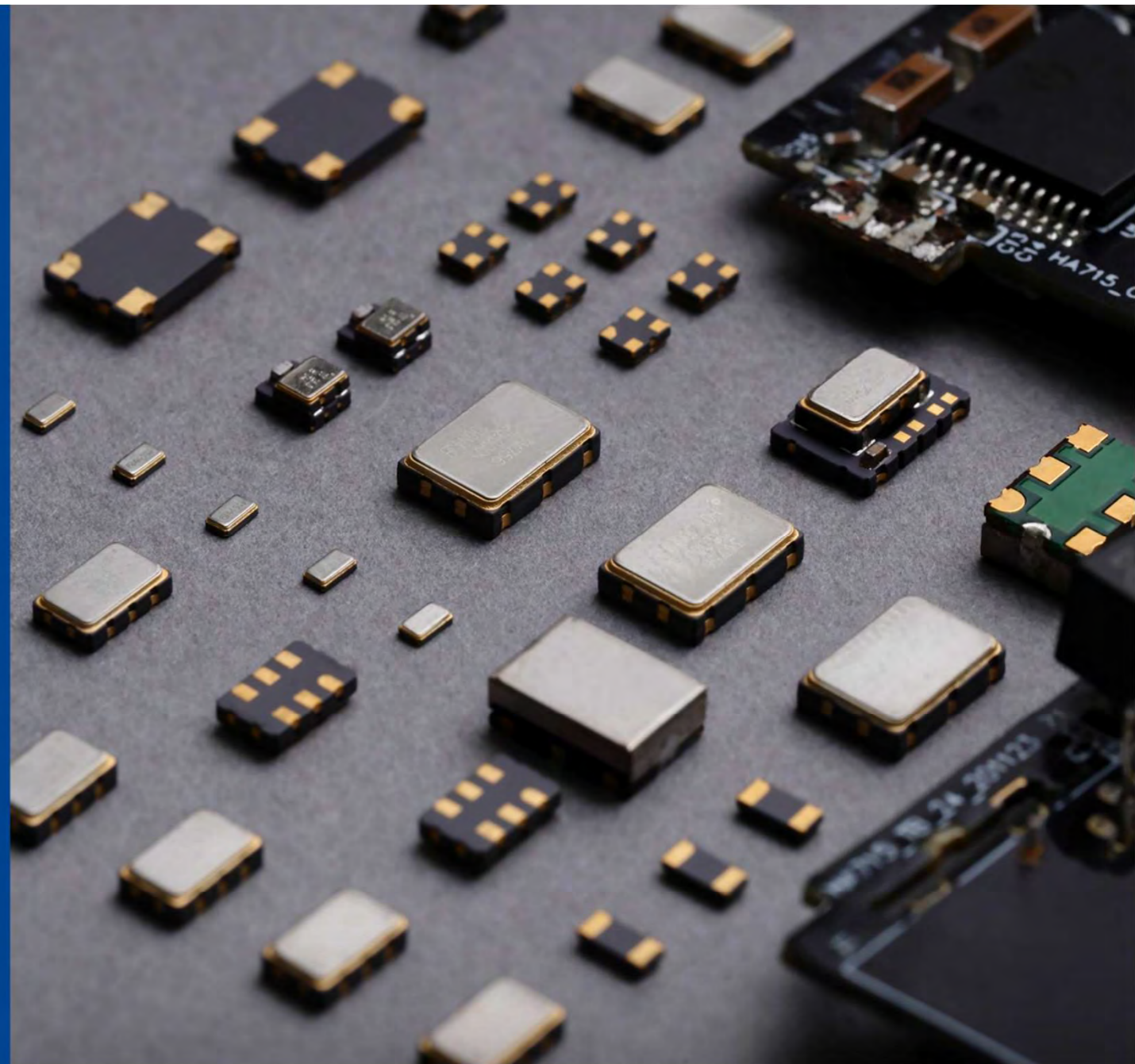
Special features



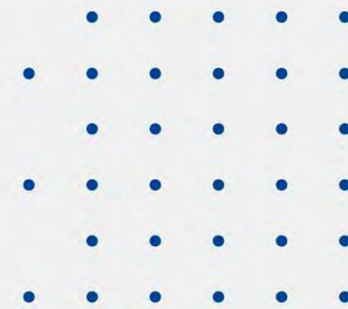
- Programmable
- Automotive (AECQ)
- Low Jitter
- Freq. switch option
- EMI Reduction
- Low power consumption
- Clock buffer
- Wide temperature range



VCXO PORTFOLIO



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VCXO PORTFOLIO



2.5 x 2.0 x 1.0

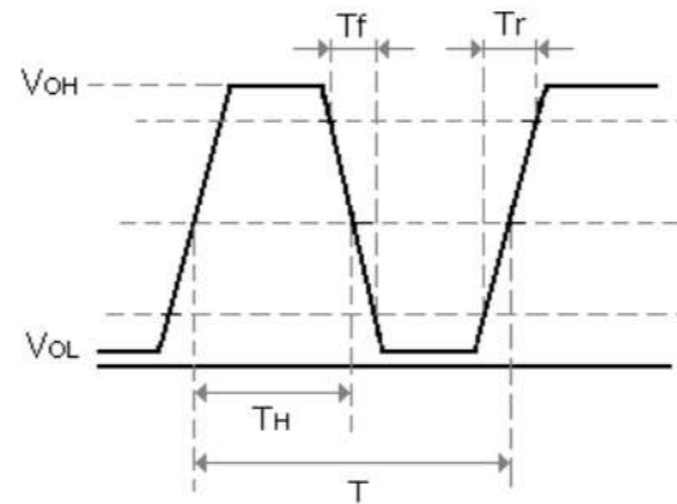
3.2 x 2.5 x 1.0

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

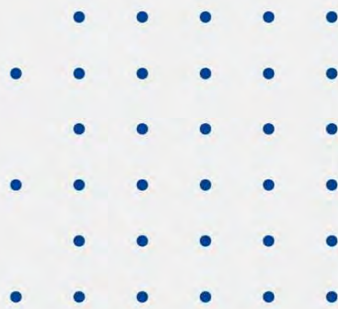
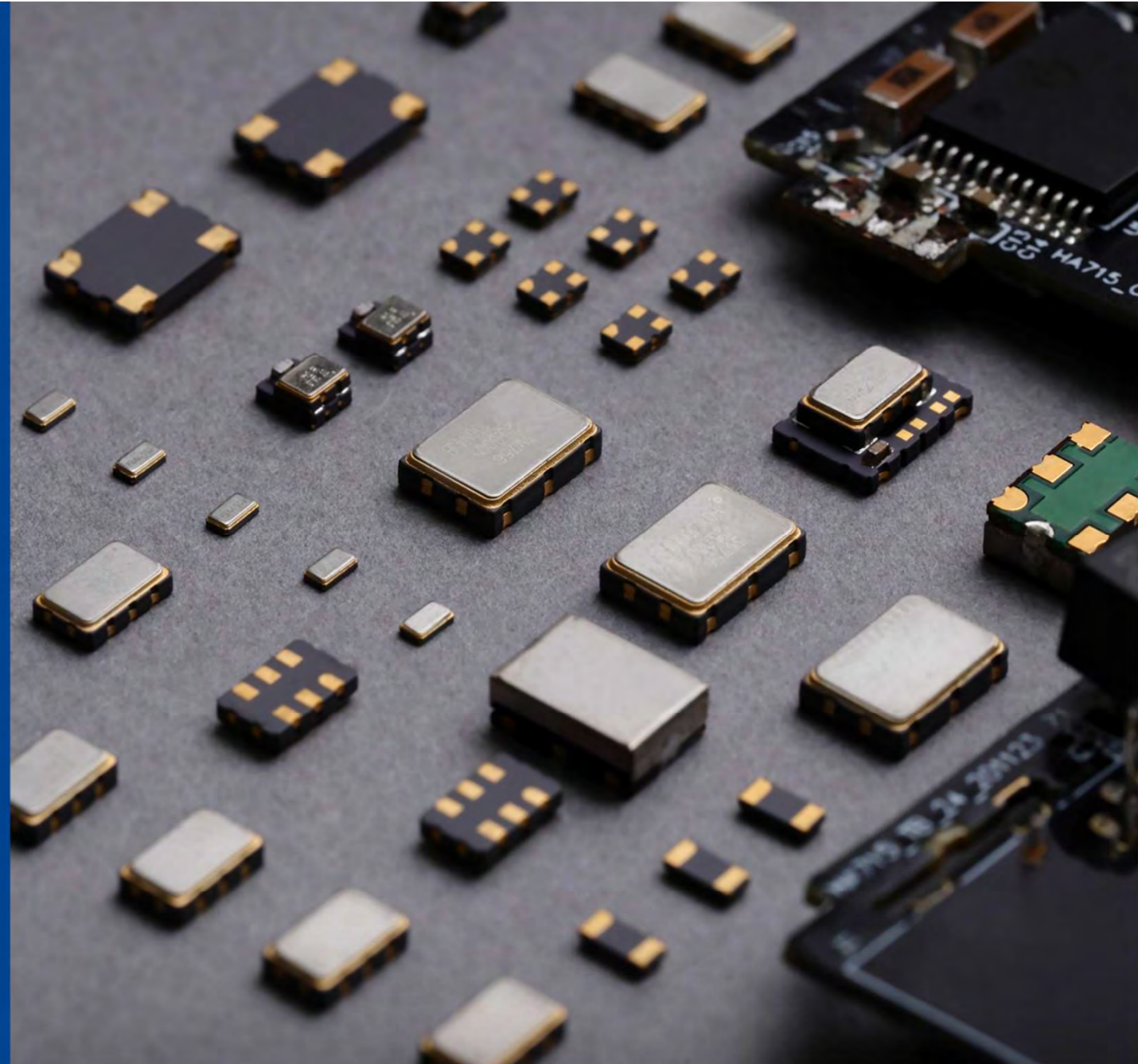




TCXO / VCTCXO PORTFOLIO



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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



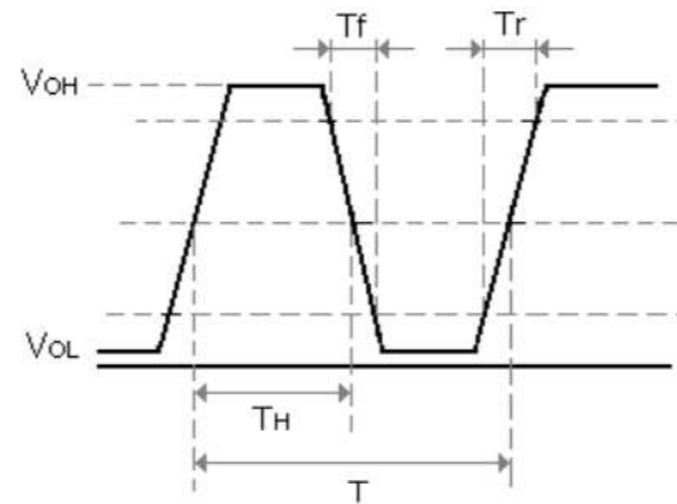
5.0 x 3.2 x 1.x



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



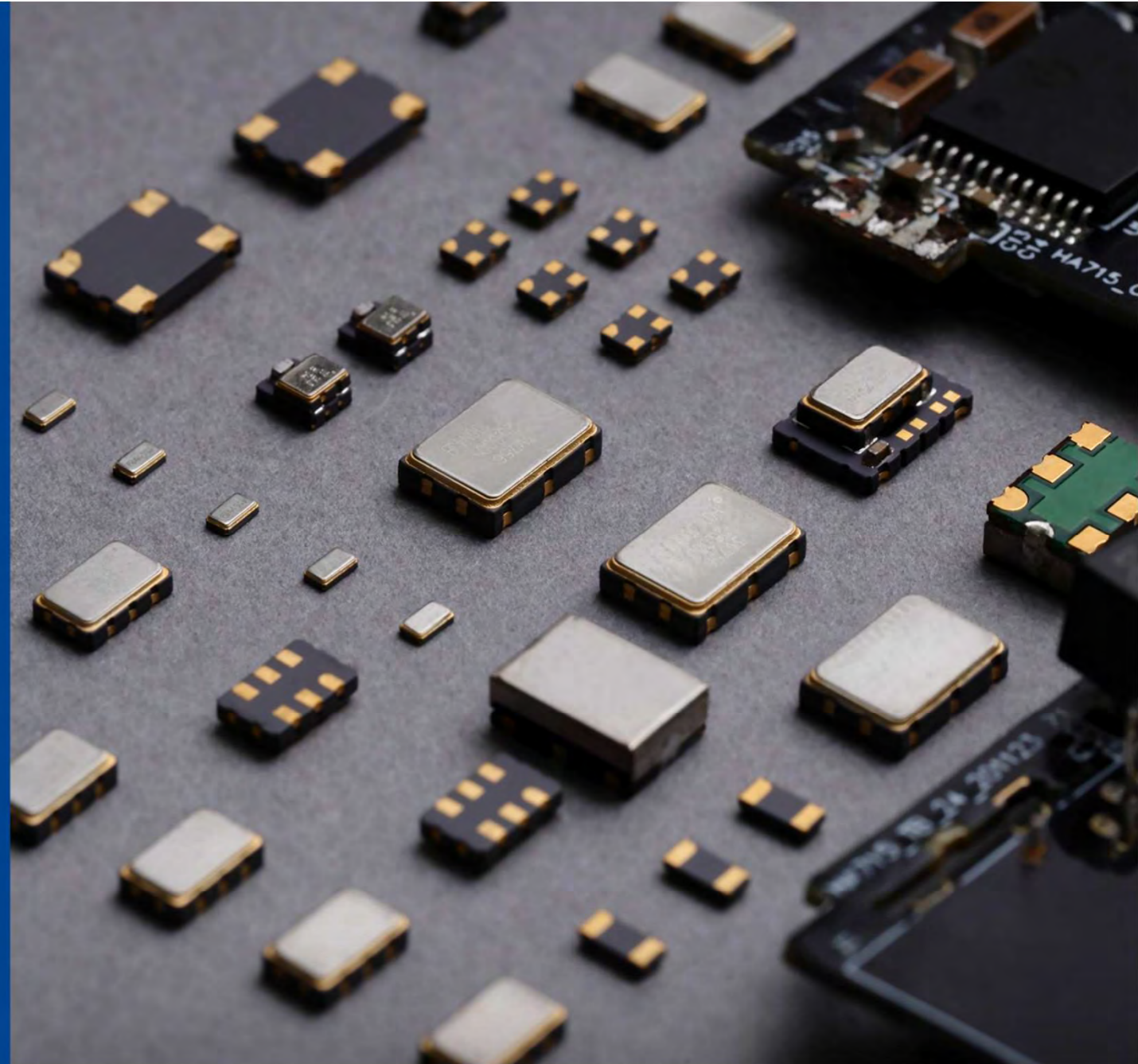
Special features

- Programmable
- Low Jitter
- Low current

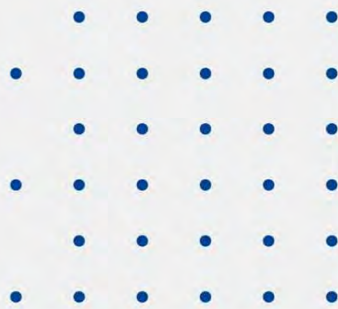




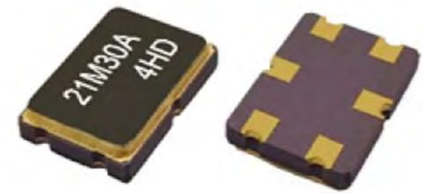
CRYSTAL FILTER PORTFOLIO



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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



Holy Stone

Bastian Siebenhaar

Director, Semiconductor

Holy Stone Enterprise Co., Ltd.

1F, No. 62, Sec. 2, Huanshan Rd., Neihu Dist.,
Taipei 11452, Taiwan, R.O.C.

Mobile: 886-972722975

Fax: 886-2-2627-0242

Email: bastian@holystone.com.tw

holystone.com.tw

European Sales Channel



Philipp Kappes
Managing Director

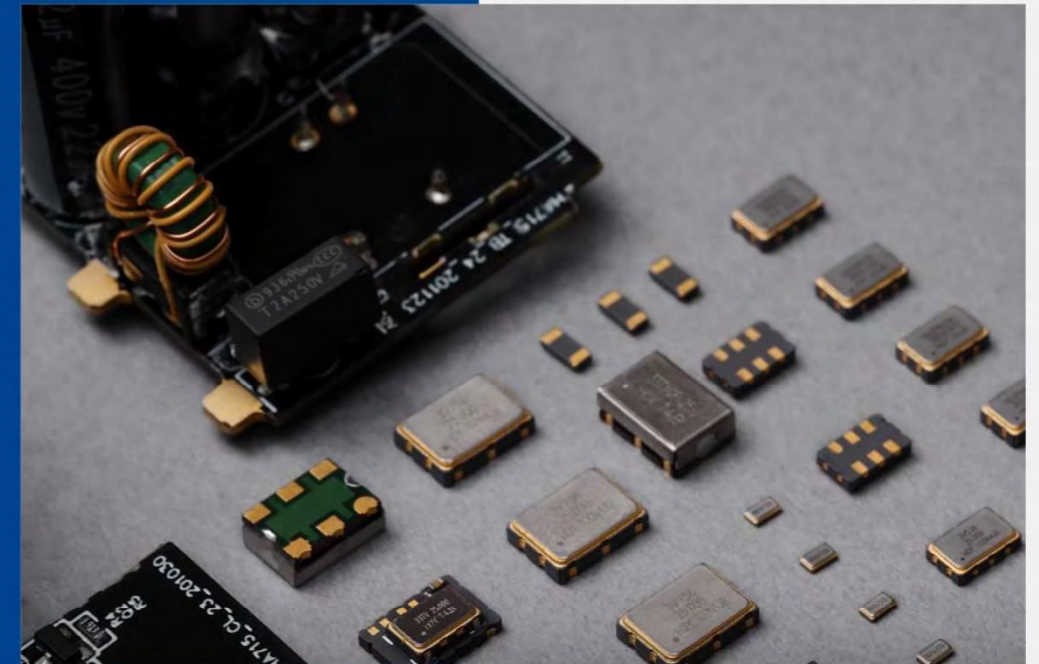
+49 9122 8768-15

Philipp.kappes@rm-components.de





THANK YOU



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