

Company Profile





Taiwan
(Administrative HQ)

Hangzhou
(Operational HQ)

**Hangzhou
New Campus**

Zhuhai

Founded

Mar.1979

Dec.1993

Q4 2013

Oct.1992

Capital

USD12.5 Million

USD 25 Million

USD 15 Million

USD 6.65 Million

Employees

70

1100

350

SMD Oscillator

Units/Month

8M

Seam Sealing Crystal

40M

Glass Sealing Crystal

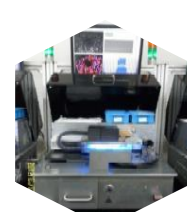
22M

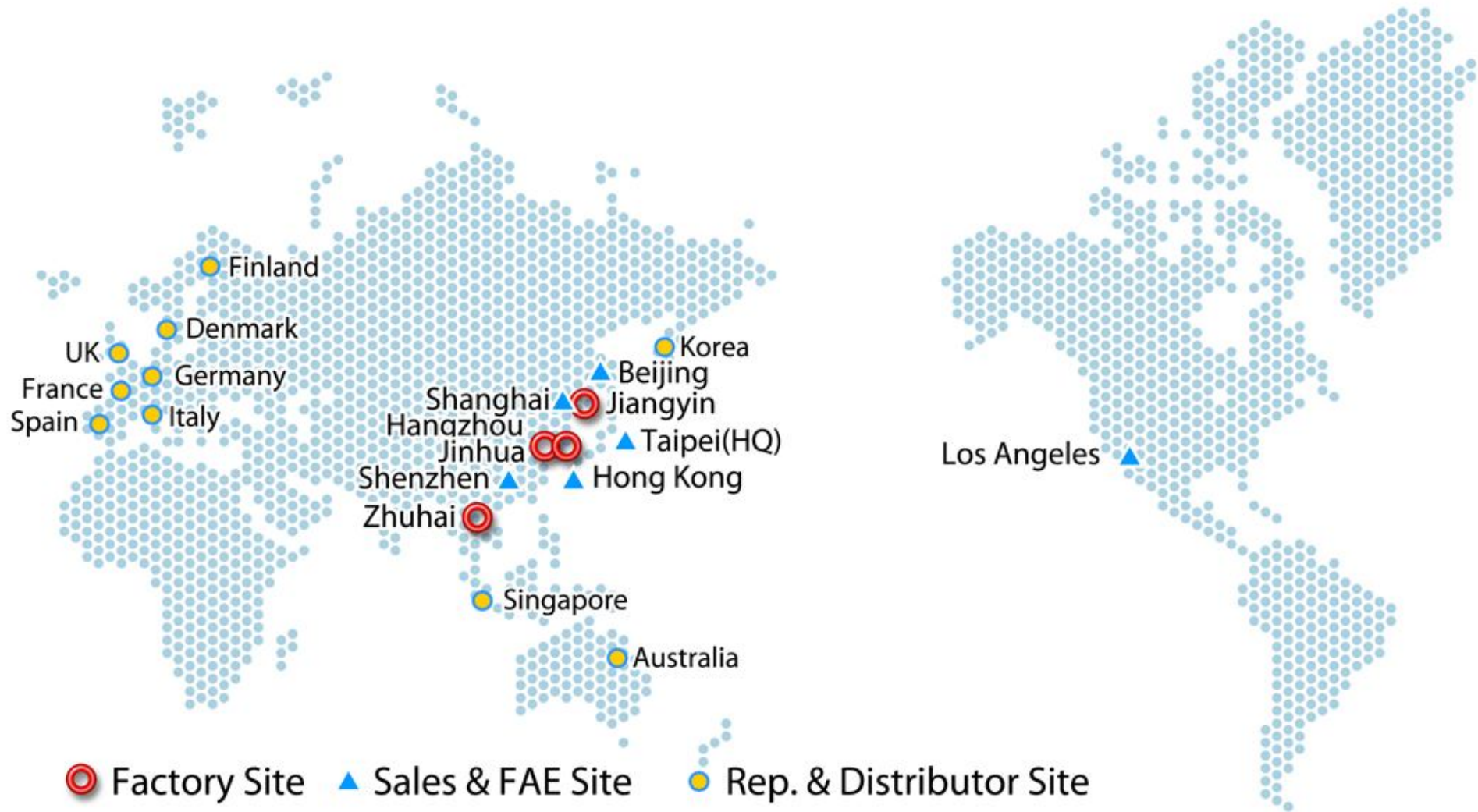
DIP Crystal

30M

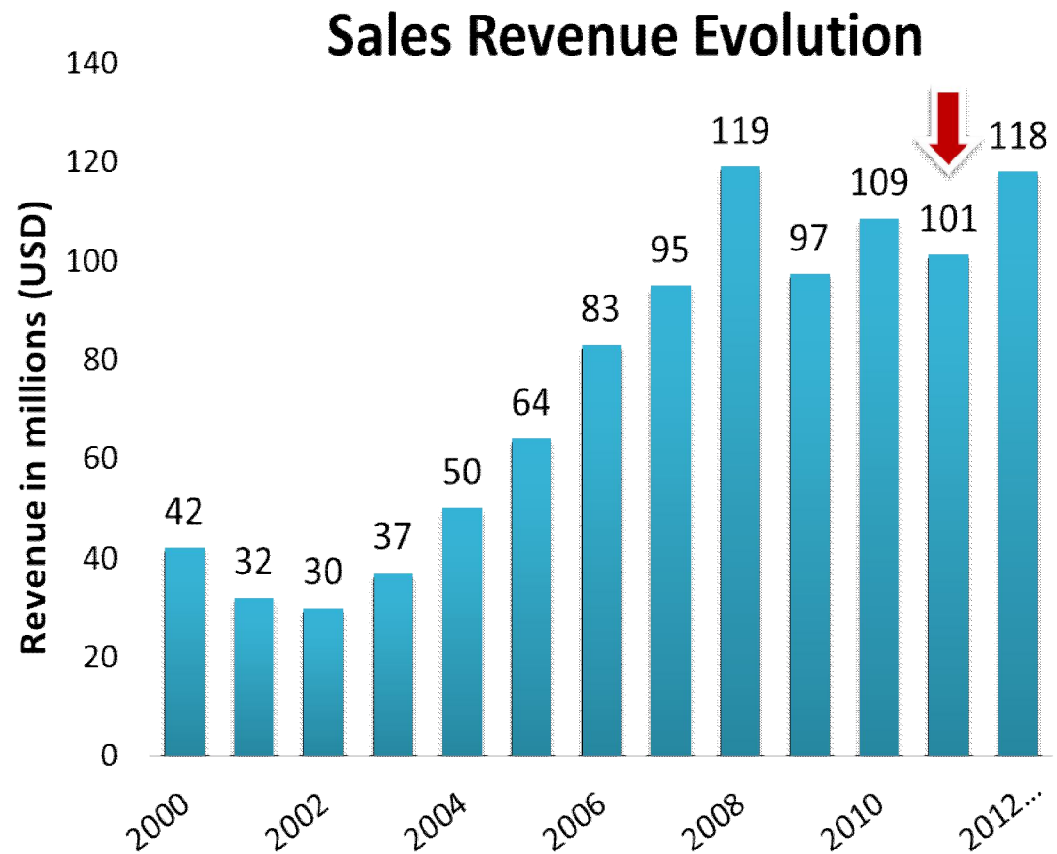
Total capacity: 100 M / Month

	JINHUA HONGDA	JIANGYIN HONGXIANG
Founded	July, 2003	July, 2006
Location	Zhejiang	Jiangsu
Capital	RMB 8 Million	RMB 3 Million
Employees	140	70
Product	Quartz blank	Quartz blank



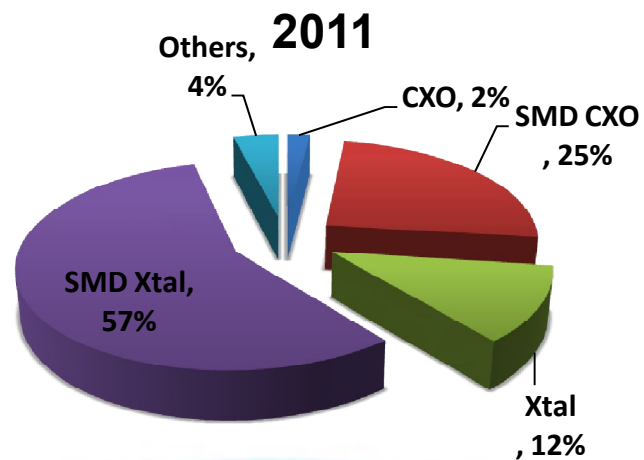
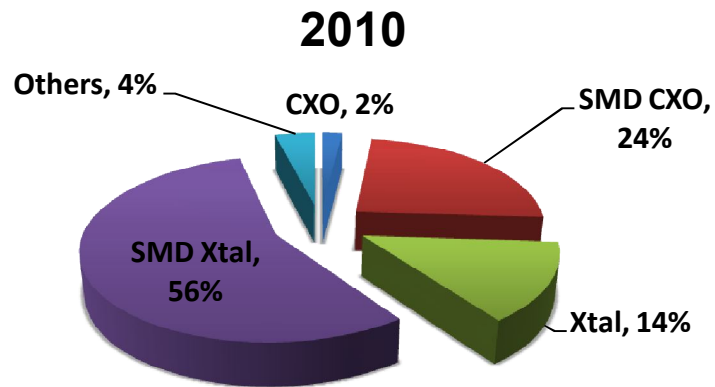


2011 Rank	Company Name	2011 Revenue
1	Epson Toyocom	592
2	NDK	557
3	KDS	389
4	TXC	327
5	KED	265
6	Vectron	196
7	Rakon	111
8	Hosonic	101
9	Taitien	79
10	Micro Crystal	63
11	TEW	59
12	Pericom	52
13	River	52
14	Conner-Winkfield	41
15	CTS	37
	Others Companies	618
	Total Revenue	3,539

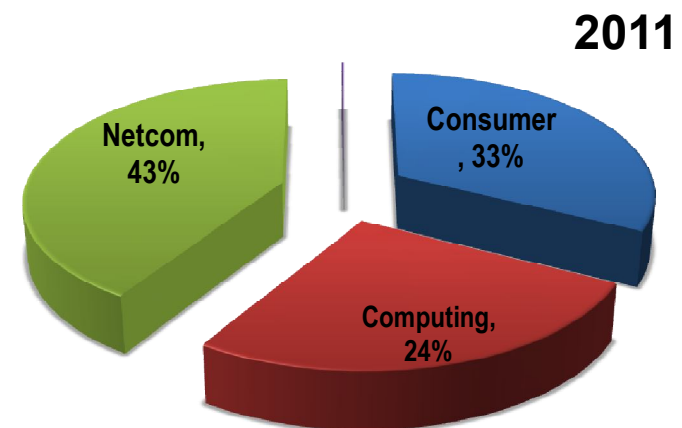
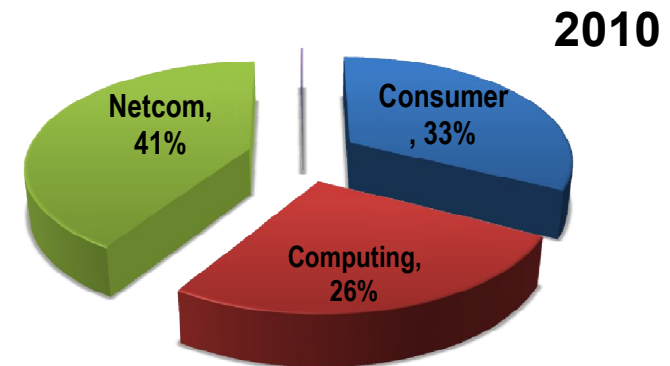


Worldwide ranking No.8 in 2011

Sales by Product



Sales by Industry



 **FOXCONN®**
Wistron Corporation
Quanta Computer **FLEXTRONICS** **LITEON®** **5XLINK®** **ASUS®** **Chicony** **Inventec** **JABIL**
Realizing IDFAS Together **altek**
Quanta Storage
Celestica™ **ECS ELITEGROUP**





SONY



ZTE中兴

Coolpad酷派



H3C
IToIP Solutions Expert



amazon.com

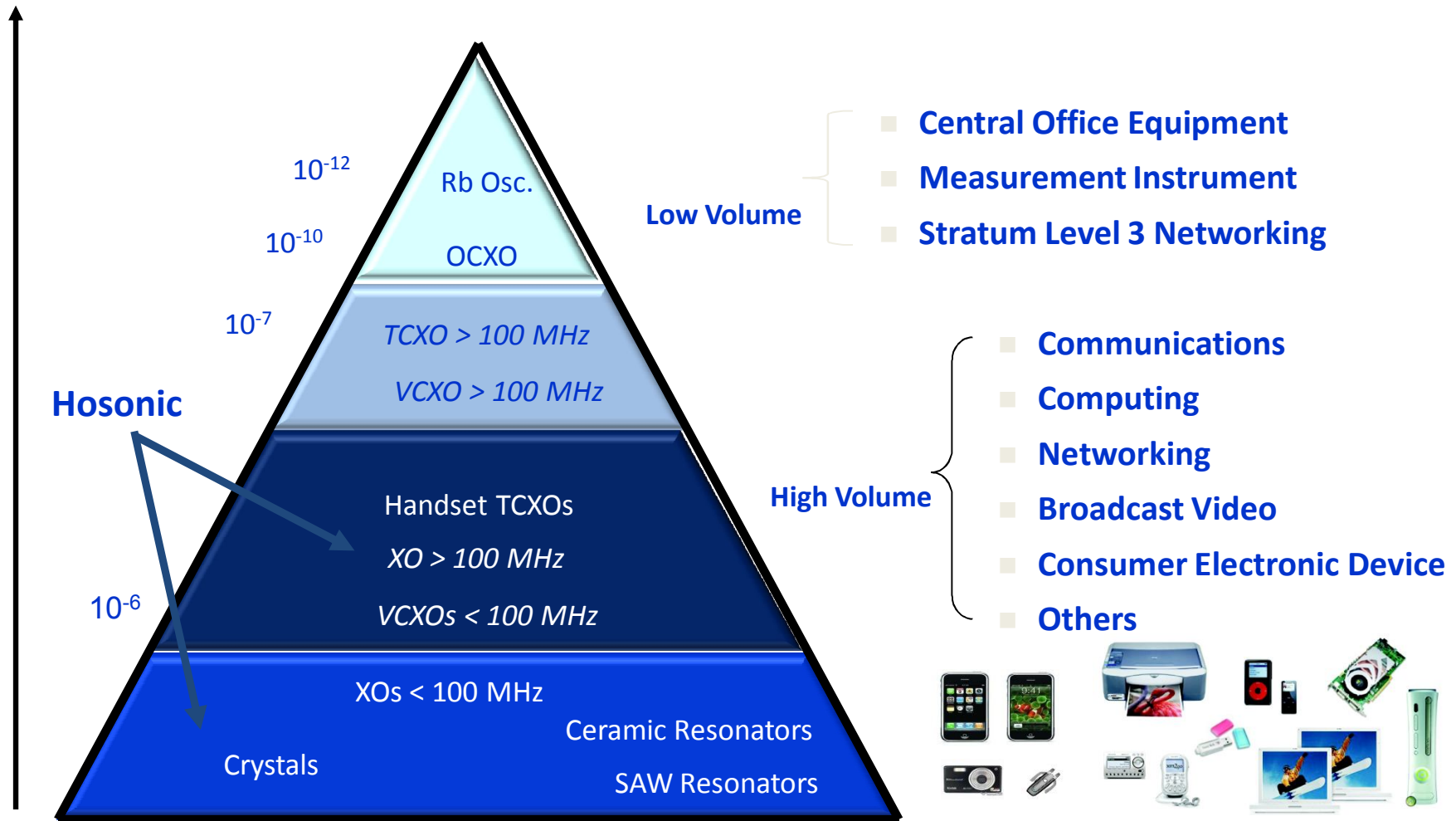


SERCOM

ZyXEL



Panasonic
ideas for life



XTAL

SMD
(up to 100MHz)

SMD Small Size
(1612)

DIP/SMD
49S/49SM
(up to 66MHz)

DIP Tuning Fork
(up to 100KHz)

XO

SMD
(up to 133MHz)

Programming
OSC
(up to 200MHz)

VCXO

SMD
(up to 200MHz)





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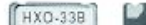
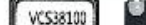
SMD Seam Crystal Units

Series	Actual Size	Dimensions (mm)	Frequency Range
TAB		1.6*1.2*0.37	26~54MHz
1AB		2.0*1.6*0.50	24~54MHz
2SB		2.5*2.0*0.65	12~54MHz
3SB		3.2*2.5*0.75	12~54MHz
5SB		5.0*3.2*0.90	10~80MHz

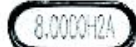

SMD Glass Crystal Units

3FB		3.2*2.5*0.90	12~54MHz
5FA		5.0*3.2*1.40	10~80MHz

SMD Clock Oscillator & VCXO

Series	Actual Size	Dimensions (mm)	Frequency Range
2520		2.5*2.0*0.9	1~ 54MHz
3225		3.2*2.5*1.2	1~ 54MHz
5032		5.0*3.2*1.3	1~133MHz
7050		7.0*5.0*1.5	1~133MHz
VC-S		7.0*5.0*1.8	1.75~54MHz

DIP Metal Can Crystal Units

HC-49S		11.05*4.65*3.5	3.2~66MHz
HC-49SM		12.9*4.7*4.2	3.2~66MHz

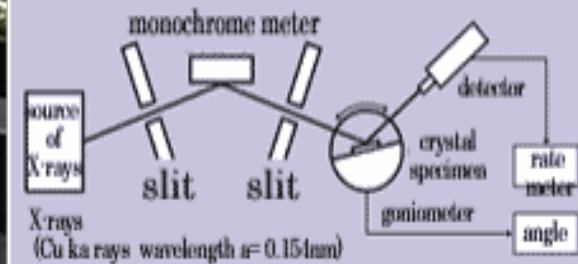


1. Grown quartz crystals



2. Cutting crystal

Functional diagram of a X-ray cut angle inspection instrument.



3. Angle measurement



4. Dual-face lapping



5. Frequency classify



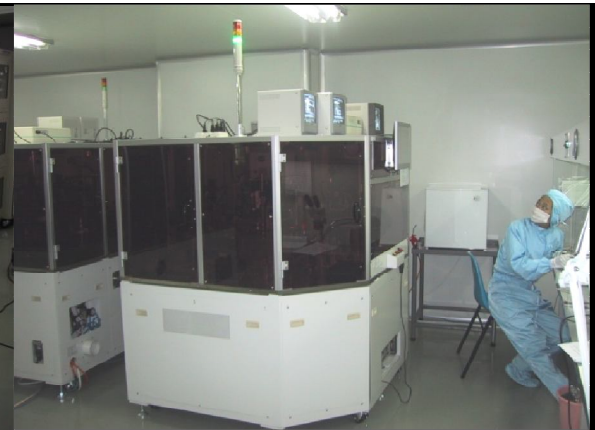
6. Etching & cleaning



1. Blank Sorting



2. Base coating



3. Blank mounting



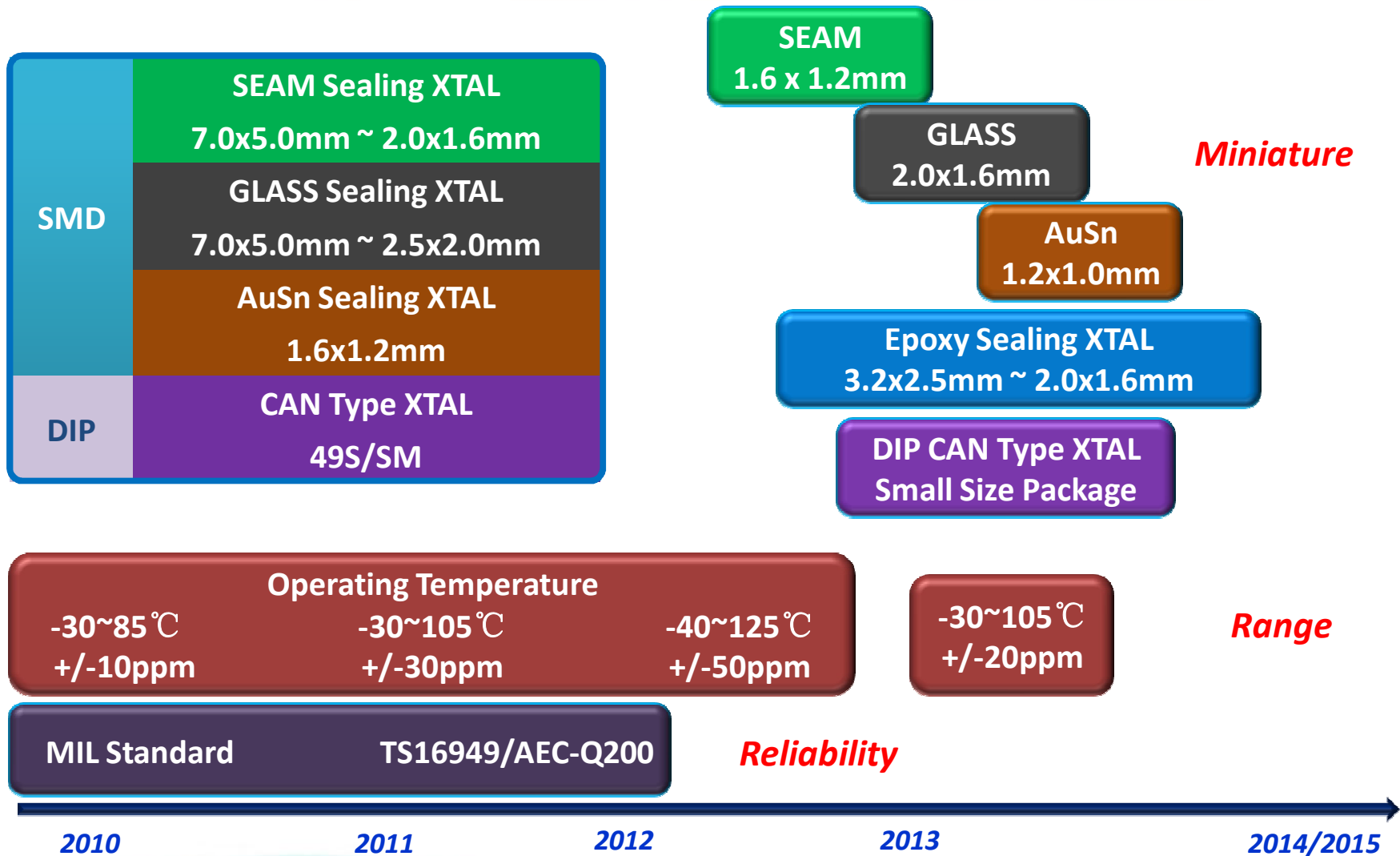
4. Final adjusting

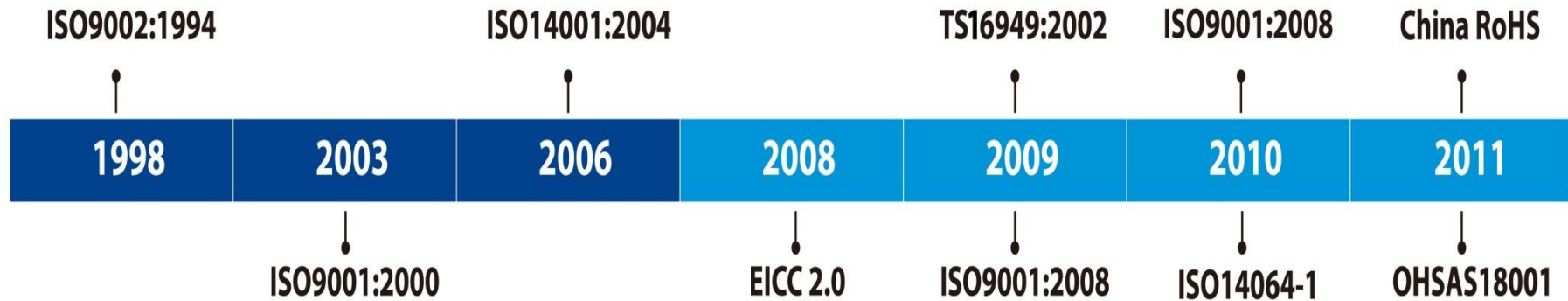


5. Seam/Glass Sealing



6. Auto test/marketing





Standard	Certification Authority	Standard	Certification Authority
ISO9001:2008	ZAZH	OHSAS18001:2001	ZAZH
ISO14001:2004	ZAZH	China RoHS	CESI
TS16949:2002	KIWA	EICC 2.0	SGS
ISO14064-1:2006 (GHG)	CESI		

Q & A



THANK YOU!