

### THIS IS TO CERTIFY THAT

### **JBG METAFIX**

IS OUR AUTHORISED DISTRIBUTOR FOR WTL PRODUCT IN FRANCE MARKET. WITH EFFECT FROM JANUARY 1ST, 2019 TO DECEMBER 31ST, 2020.

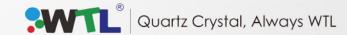






# **WTL International Limited**

**Frequency Oscillator Experts** 





#### **Vision**

- The WTL Company will inspire its employees to be the best they can be. We will engage in sustainable practices and anticipate the needs of our customers. We will maximize return to the stockholders while still maintaining high quality in our products.

#### **Mission**

- One Stop Frequency Centre
- Best Quality
- Profitable
- Sustainable
- Health Works
- Continues Improvement
   (People, Material, Quality and Service)





- \* Established: Year 2001
- \* Capital: 80Million
- \* National Key High –Tech Enterprise in Auhui Province

### AnHui Factory

- Worker: 175
- Factory SIZE: 6000M<sup>2</sup>
- Production, QA, QC, Warehouse,
   R&D, Technical, IQC

### Shen Zhen Office

- Sales & Marketing & Warehouse
- Hong Kong Office
- Financial Control & Global Procurement

# **History**

#### 2002年

**Established production base** 

Established 49s/49U production line in October with monthly capacity of 800kpcs

### 2005年

Imported production line of the Glass series expanding monthly capacity to 6 m pieces

### 2010年

The factory was moved to Anhui, and the monthly capadity expanded to 26 million. Imported 5 Japanese SMD3225 automatic lines

#### 2017年

Capacity: 40 million

Keep introducing new automation equipment, increasing monthly capacity to 40 million





# 2001年

Found in Shenzhen and set up a factory

# 2003年

ISO9001 Quality system certification IS014001 **Environmental system** certification

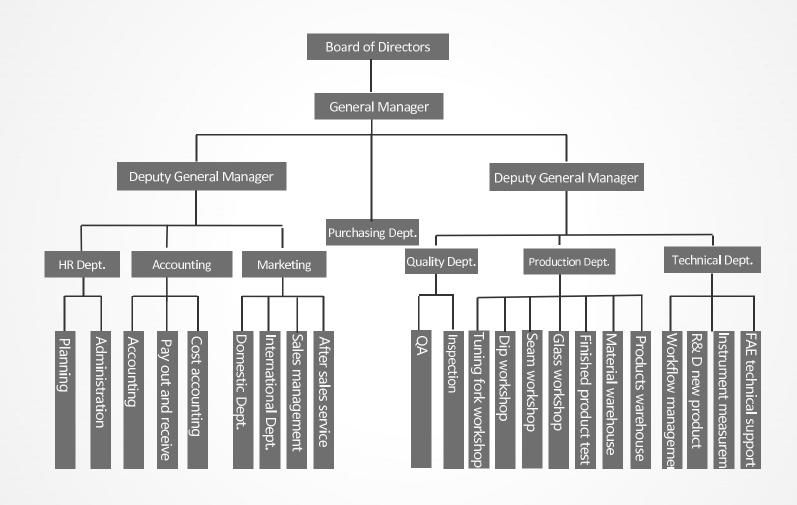
# 2007年

Opened up the international market, Successfully imported international customers such as Jabil, Arrow, and Flex.

# 2015年

Miniaturized mass production for 2520, continue to maintain development direction of diversification, miniaturization, highprecision

# **WTL Structure**





# **WTL Factory**

# Clean room/ 10000









# **WTL Factory**











### **Capacity & Material**

Product Category	Monthly Capacity
SMD 2025	2M
SMD 3225	20 M
SMD5032	1 M
SMD 6035	1 M
SMD7050	1 M
HC-49U	1 M
HC-49US	6 M
Tuning Fork	5 M
Others	3 M
Total	40 M

Туре	Vender
Crystal Bar	South Urals, Russia- Crystal Factory, TF
Base	SMI/NTK/KYOCERA (JP)
IC	NPC- Japan
Top Cover	Hua Nu Dike/Yoshikawa Corporation (JP)
Conductive Glue	Three Bond – (JP)





#### **Quartz Crystal**

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
1	TX9	4M	1.2 x 1.0 x 0.3	32MHz-96MHz	4	-
2	TX8	8M	1.6 x 1.2 x 0.35	26MHz-66MHz	4	**
3	TX1	1M	2.0 x 1.6 x 0.5	20MHz-96MHz	4	**
4	TX2	2M	2.5 x 2.0 x 0.55	12MHz-54MHz	4	*
5	TX3	3M	3.2 x 2.5 x 0.7	8 MHz-104 MHz	4	*
6	TX5	5M	5.0 x 3.2 x 0.9	8 MHz-100MHz	4	*
7	TX6	6M	6.0 x 3.5 x 1.0	8MHz-80 MHz	4	*
8	TX7	7M	7.0 x 5.0 x 1.1	6 MHz-110 MHz	4	**
9	TG5	5G	5.0 x 3.2 x 1.2	8 MHz-80 MHz	2	4
10	TG6	6G	6.0 x 3.5 x 1.2	8 MHz-80 MHz	2	4
11	TG7	7G	7.0 x 5.0 x 1.4	6 MHz-80 MHz	2	4
12	TG8	8G	8.0 x 4.5 x 1.5	6 MHz-80 MHz	2	4
13	W12	2W	12.4 x 4.8 x 3.6	3.579MHz-27MHz	4	9
14	WX6	95	HC-495 11.05 x 4.7 x 3.68	3.2 MHz-100 MHz	2	
15	WX6	6U	HC-49SS 11 x 4.7 x 2.0/2.5/3.0	3.2 MHz-100 MHz	2	1
16	WX7	9M	HC-49SMD 13.0 x 4.73 x 4.0	3.2 MHz-100 MHz	2	1
17	WS7	75	HC-49SSMD 13 x 4.7 x 2.5/2.8/3.0	3.2 MHz-100 MHz	2	1
18	WZ7	9L	Mini-49/S SMD 7.0 x 4.1 x 2.0	12MHz-32MHz	2	1
19	WZ6	35	HC-49/S 3Pin 11.05 x 4.7 x 3.5	3.2 MHz-100 MHz	3	1

#### **Tuning fork Crystal**

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
28	TS7	4X	1.2 x 1.0 x 0.5	32.768KHz	2	
29	TS8	8W	1.6 x 1.0 x 0.5	32.768KHz	2	
30	TS9	1W	2.0 x 1.2 x 0.6	32.768KHz	2	
31	WX1	1X	3.2 x 1.5 x 0.8	32.768KHz	2	
32	WX3	3X	3.8 x 8.0 x 2.5	30KHz-350KHz	4	-0
33	WX4	4X	6.9 x 1.4 x 1.3	32.768KHz	4	1
34	WA1	2T	ф1.2 х 4.5	32.768KHz	2	1
35	WX2	2X	ф2 х б	30 KHz-350 KHz	2	1
36	WT8	3T	ф3 х 8	30 KHz-350 KHz	2	1
37	WA4	8A	ф2 x 6/SMD	32.768KHz	2	
38	WX8	9A	ф2 x 6 /SMD	30 KHz-350 KHz	2	-

#### **Crystal Filter**

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
39	WF1	1F	UM-1:7.8x3.2x7.8 UM-5:7.8x3.2x6.0	10MHz-45MHz	2/4	60
40	WF2	2F	HC-49U/HC-49T:	7.8MHz-60MHz	2/4	
41	WF3	3F	11 x 8.5 to 18 x 12	7.8MHz-60MHz	4	5
42	WF4	4F	45 x 21 x 15 52 x 47 x 21	0.18MHz-2MHz	4	
43	WF5	5F	30 x 20 to 45 x 21	7.8MHz-70MHz	4	10
44	WF6	6F	30 x 20 to 60 x 25	7.8MHz-60MHz	4	10



#### Crystal Oscillator(CMOS)

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
46	TK2	4K	2.5 x 2.0 x 0.81	32.768KHz	4	
47	ТКЗ	6K	3.2 x 2.5 x 0.95	32.768KHz	4	
48	TK4	8K	2.5 x 2.0 x 0.81	32.768KHz	4	
49	TK5	9K	3.2 x 2.5 x 0.95	32.768KHz	4	
50	TC1	1K	2.05 x 1.65 x 0.75	1.5MHz-50MHz	4	
51	TC2	2K	2.5 x 2.0 x 0.81	32.7KHz-125MHz	4	
52	TC3	3K	3.2 x 2.5 x 0.95	32.7KHz-125MHz	4	
53	TC5	5K	5.0 x 3.2 x 1.2	13.7KHz-160MHz	4	23
54	TC7	7K	7.0 x 5.0 x1.3	13.7KHz-166MHz	4	4
55	TU2	1D	2.5 x 2.0 x 0.81	1MHz-50MHz	4	
56	TU3	2D	3.2 x 2.5 x 0.95	1MHz-50MHz	4	
57	TW2	3D	2.5 x 2.0 x 0.81	1.25MHz-100MHz	4	
58	TW3	4D	3.2 x 2.5 x 0.95	1.25MHz-100MHz	4	
59	TN2	5D	2.5 x 2.0 x 0.81	20MHz-60MHz	4	
60	TN3	6D	3.2 x 2.5 x 0.95	20MHz-60MHz	4	
61	LO1	8F	20.4 x 12.8 x 5	0.25MHz-180MHz	4	94
62	L02	8H	12.8 x 12.8 x 5	0.25MHz-180MHz	4	34

#### FASTXO Crystal Oscillator(CMOS)

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
63	TB1	18	2.05 x 1.65 x 0.75	1MHz-200MHz	4	20
64	TB2	28	2.5 x 2.0 x 0.81	1MHz-200MHz	4	20
65	твз	3B	3.2 x 2.5 x 0.95	1MHz-200MHz	4	20
66	TB5	5B	5.0 x 3.2 x 1.2	1MHz-200MHz	4	20
67	TB7	7B	7.0 x 5.0 x1.3	1MHz-200MHz	4	4
68	TL2	1P	3.2 x 2.5 x 0.90	10MHz-250MHz	6	
69	TL4	3P	5.0 x 3.2 x 1.2	10MHz-250MHz	6	
70	TL6	5P	7.0 x 5.0 x 1.45	10MHz-250MHz	6	13

### Crystal Oscillator(LVPECL/LVDS/HCSL/CML)

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
71	TL3	2P	3.2 x 2.5 x 0.90	10MHz-1500MHz	6	
72	TL5	4P	5.0 x 3.2 x 1.2	10MHz-1500MHz	6	
73	TL7	6P	7.0 x 5.0 x 1.45	10MHz-1500MHz	6	13
74	TP3	1Q	3.2 x 2.5 x 0.90	10MHz-250MHz	6	
75	TP5	2Q	5.0 x 3.2 x 1.2	10MHz-320MHz	6	
76	TP7	3Q	7.0 x 5.0 x 1.45	10MHz-320MHz	6	13
77	TN7	7D	7.0 x 5.0 x 1.45	70MHz-170MHz	6	13
78	TS7	4Q	7.0 x 5.0 x1.45	25MHz-75MHz	6	13



#### VCXO

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
79	PV3	2V	3.2 x 2.5 x 0.9	10MHz-250MHz	6	
80	PV5	4V	5.0 x 3.2 x 1.25	10MHz-250MHz	6	10
81	PV7	6V	7.0 x 5.0 x1.75	10MHz-250MHz	6	JA
82	PL3	3V	3.2 x 2.5 x 0.9	10MHz-1500MHz	6	Q
83	PL5	5V	5.0 x 3.2 x 1.25	10MHz-1500MHz	6	1
84	PL7	7V	7.0 x 5.0 x1.75	10MHz-1500MHz	6	Q
85	CL5	5L	5.0 x 3.2 x 1.25	30MHz-250MHz	6	1
86	CL7	7L	7.0 x 5.0 x1.75	1.5MHz-200MHz	6	THE
87	CV5	8L	5.0 x 3.2 x 1.25	1.5 MHz-170 MHz	6	12
88	CV7	6L	7.0 x 5.0 x1.75	1.5 MHz-170 MHz	6	
89	CV8	8V	14.2 x 9.3 x 5.4	30MHz-250MHz	6	93
90	LV1	1L	Full Size/Half Size	1 MHz-80 MHz	4	-
91	LV2	2L	13.9 x 9.1 x 3.6	50MHz-125MHz	4	33

#### TCXO/VCTCXO

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
92	VC1	1C	2.0 x 1.6 x 0.7	10MHz-52MHz	6	JE
93	VC2	2C	2.5 x 2.0 x 0.7	10MHz-52MHz	4	24
94	VC3	3C	3.2 x 2.5 x 0.9	10MHz-52MHz	4	
95	VC5	5C	5.0 x 3.2 x 1.1	10MHz-52MHz	4	20
96	VC7	7C	7.0 x 5.0 x 1.9	5MHz-52MHz	4	
97	VC8	8C	14.3 x 8.7 x 4.9	5MHz-40MHz	6	90

#### OCXO Page Series P/N Dimension(mm) PAD **Picture** Frequency OC9 9.7 x 7.5 x 4.1 10 MHz-40 MHz 008 14.3 x 9.3 x 6.5 5 MHz-40 MHz 106 OCH 20.3 x 12.7 x 11.0 5 MHz-40 MHz ocw 20.6 x 20.6 x 11.0 5 MHz-40 MHz OSD 25.4 x 22.1 x 11.0 5 MHz-40 MHz OLH 25.4 x 25.4 x 12.7 5 MHz-40 MHz 110 111 OCN 7H 25.4 x 25.4 x 12.7 5 MHz-40 MHz 112 OSH 8B 36.3 x 27.2 x 12.7 5 MHz-40 MHz V

#### **Dielectric Antenna**

OCD

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
114	DA1	4C	10 x 10 to 35 x 35	1568/1575/1590MHz	-	N E
115	DA2	2A	8 x 8 to 25 x 25	1568/1575/1590M Hz	1-1	0
116	DA3	ЗА	12 x 12 to 25 x 25	BDS-B1/GPS-L1	-	1
117	DA4	4A	43 x 37 x 13.6 61 x 61 x 18	BDS-B1/GPS-L1	10,	00
118	DA5	5A	ф6 X 5 to 30 x 30	915MHz/5810MHz	-	0
						1

5 MHz-40 MHz

36.3 x 27.2 x 18.7



#### **SAW Resonator**

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
119	SR1	17	2.0 x 1.6 x 1.0	154MHz-1000MHz	4	8
120	SR2	2Y	3.2 x 2.5 x 1.0	154MHz-1000MHz	4	Q#
121	SR3	3Y	3.0 x 3.0 x 1.25	154MHz-1000MHz	6	*
122	SR4	4Y	3.8 x 3.8 x 1.5	154MHz-1000MHz	6	*
123	SR5	5Y	5.0 x 5.0 x 1.5	154MHz-1000MHz	8	V 45
124	SR6	6Y	5.0 x 3.5 x 1.4	154MHz-1000MHz	4	80
125	SR7	7Y	D11 8.4 x 3.5 x 2.9	154MHz-1000MHz	3	Was
126	SR8	8Y	F11 11.0 x 4.5 x 3.2	154MHz-1000MHz	4	1
127	SR9	9Y	TO39 φ9.15 x 3.15	154MHz-1000MHz	3	00

#### **SAW FILTER**

Page	Series	P/N	P/N Dimension(mm) Frequency		PAD	Picture
128	SFO	6E	1.1 x 0.9 x 0.5 800-2605MHz		5	
129	SF1	1E	1.4 x 1.1 x 0.6	800-2605MHz	5	
130	SF2	2E	2.0 x 1.5 x 0.6	800-2605MHz	4	<b>H</b>
131	SF3	3E	3.0 x 3.0 x 1.25	300-2605MHz	6	*
132	SF4	4E	3.8 x 3.8 x 1.5	100-1000MHz	6	*
133	SF5	5E	5.0 x 5.0 x 1.5	100-1000MHz	8	O.
134	SF7	7E	D11 8.4 x 3.5 x 2.9	100-1000MHz	3	W.
135	SF8	8E	F11 11.0 x 4.5 x 3.2	100-1000MHz	4	1
136	SF9	9E	ТОЗ9 ф9.15 x 3.15	100-1000MHz	3	00
137	SW1	1J	36 x 16 x 5.5	70MHz	6	

139	SW3	3J	27.2 x 12.6 x 7.0	70MHz-140MHz	6	
140	SW4	41	22.5 x 17.5 x 7.5	70MHz	8	-
141	SW5	5J	22.1 x 12.6 x 5.0	50MHz-150MHz	6	
142	SW6	6.1	19.50 x 6.50 x 1.75	70MHz	10	
143	SW7	<b>7</b> J	14.5 x 10.0 x 5.1	140MHz	6	-
144	SW8	8.1	13.30 x 6.5 x 1.8	50MHz-150MHz	12	*
145	SW9	91	12.0 x 7.2 x 4.2	100Mhz-1000MHz	4	fin-

#### Ceramic Resonator& Filter & Discriminator

Page	Series	P/N	Dimension(mm)	Frequency	PAD	Picture
146	ZTA	91	6.0 x 5.5 to 10 x 7.5	1.79MHz-60MHz	2	>
147	ZAD	8R	2.2 x 1.8 to 7.4 x 3.4	2MHz-60MHz	2	(4)
148	ZTT	81	6.0 x 5.5 to 10 x 7.5	1.79MHz-60MHz	3	90
149	ZTD	7R	2.2 x 1.8 to 7.4 x 3.4	2MHz-60MHz	3	100
150	ZTB	41	5.2 x 6.8 to 13.5 x 14.7	150KHz-1.5MHz	2	-
151	ZBD	21	6.0 x 5.0 x 2.3 8.5 x 7.5 x 3.3	430KHz-1.25MHz	2	-
152	CD1	15	DIP 6.0 x 6.3 x 3.0 SMD 6.0 x 6.2 x 3.1	455KHz	2	**
153	CD2	25	DIP 9.0 x 7.0 x 4.0 SMD 3.7 x 3.1 x 1.4	10.7MHz	2	99
154	CF1	1Z	8.0 x 8.0 x 7.0 11.0 x 8.0 x 7.0	455KHz	3/5	
155	CF2	3Z	6.5 x 6.3 x 6.5 9.5 x 6.3 x 6.5	455KHz	4/5	
156	CF3	5Z	6.5 x 6.0 x 4.0 6.5 x 11.9 x 3.0	450KHz-455KHz	3/4	**
157	CF4	7Z	7.0*7.0*4.0	10.7MHz	3	17 19
158	CF5	8Z	7.0 x 3.0 x 1.5 3.5 x 3.1 x 1.4	10.7MHz	3/4	30

100% Pin to Pin Replacements
Datasheet or P/N =>Across!

























### WTL Series Spec. VS Other Brands

:WTL	WTL series spec VS other Brand										
Package	WTL	Abracon	нкс	TXC	Jauch	Murata	Kyocera	EPSON	Seiko	Citizen	ACAL/ACT
2.0*1.6/4/SMD	TX1	ABM12/ABM1	cQ	87	JXS21	XRCGB	CT2016DB	FA2016AN/ FA- 128	-	-	ACT 2016SMX - 4/ACI
2.5*2.0/4/SMD	TX2	ABM10	СК	8Z	JXS22	XRCHH	CT2520DB	FA-20H		-	ACT 2205SMX - 4/AC1
3.2*2.5/4/SMD	TX3	ABM8G	C7	7M	JXS32	XROH	CX3225SB	TSX-3225/ FA- 238/ FA-238V	٠	C5325S	ACT 3255MX- 4/ACT 32255 - SMX-4
5.0*3.2/4/SMD	TX5	ABM3B/ABM3	CA	7B	JXS53	XRCLH	CX5032SB	-	•	-	ACT MESA53/AC 5315MX-4
6.0*3.5/4/SMD	TX6	ABMM2	C3	4€0	JXS63	646	-	-	-	-	630SM X-4
7.0*5.0/4/SMD	TX7	ABMM	C5	(4:)	JXS75	N=C	-	-		-	750SN X-4
1.6*1.2/4/SMD	TX8	1-	СТ	8Q	JXS11	XRCFD/XRCM D	-	FA-118T	-		ACT 1016 SMX-4
5.0*3.2/2/Glass	TG5	ABM3	CE	7A	JXG53P2	-	CX5032GA	-	-	-	-
6.0*3.5/2/Glass	TG6	ABM7	cc		JXG75P2		-	-	-		-
7.0*5.0/2/Glass	TG7	ABMM	CG	-	-	-		-	-		-
8.0*4.5/2/Glass	TG8	ABM2	C9	-	-	12	CX8045GA	-	-	S	-
HC-49U	WX5	-	90	-		-	-	-	-	-	ACT HC49U Standard
HC-495	WX6	ABL	95	9B	553	14:1	-	-		HC-49 / U-8	ACT HC49US Standard
HC-49S/3	WZ6	-	-	-ā¥c		4¥6	-	-		-	+
HC-49SMD	WX7	ABLS2	SS S2 S3	90	SMU2 SMU4	8-3	-	-	-	НСМ49	ACT HC49US
Mini HC-49SMD	WZ7	ABL7M/ABL7M 2	-	-	-	10 <del>-</del> 20	*	-	e	-	-

### WTL Series Spec. VS Other Brands

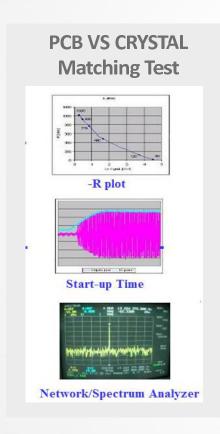
UM-1/UM-5	WM1	-	10	-	5	-	-	-	-	-	ACT UM1/AC T UM5
2.0*1.2/2/SMD	TS9	ABS06L	MQ	9HT11	JTX210	-	ST2012SB	FC-12D	SC-20T	•	-
3.2*1.5/2/SMD	WX1	ABS07	M8	9HT10	JTX310	-	ST3215SB	FC-135R	SC-32T	CM315D	-
6.9*1.4/2/SMD	WX4	ABS13	M6	9HT7	SMQ32SN		-	MC146	SSP-T7-F	CM130	
3.8*8.0/2/SMD	WX3	ABS25	МЗ	20	SMQ32SL	-	-	MC147	-	CM200C	
W12	W12	Discountinued				-	-	MC148		CM309E	
2*6/DIP	WX2	AB26T/AB38T	2T/3T	(*)	MMTF32/MT F3	-	-	MC149	VT-200-F	CFS-206	-
6.0*5.5 to 10*7.5 DIP	ZTA	AWCR/AWSZT	-	-	-	-	-	MC150	-		ACT ZTA
6.0*5.5 to 10*7.5 DIP	ZTT	HWZT/AWSCR	÷		-	CSTCC_G_A/ CSTCR_G_B/ CSTCE_Q_A/ CSTCE_V_C/ CSACV_X_Q/ CSTCV_X_Q/ CSTCV_X_Q/ CSTLS_G/ CSTLS_X	-	MC151	-	-	ACT ZTT
ZTB	ZTB	-	-		2	-	-	MC152	-	-	
2.0*1.6/4/OSC	TC1	ASA	-1	8N	JO21	-	KC2016B- C1	MC153	-	3+1	-
2.5*2.0/4/OSC	TC2	ASD	СМ	8W	JO22	XNOHH	KC2520C-C1 /KC2520C- C2	MC154	-	CSX- 252F	-
3.2*2.5/4/OSC	TC3	ASE2	C8	7X	JO32	XNCJH	KC3225A- C3(K25- 3C)	MC155	+		SM55xxLV/S M 55xxLW/SM5 5



### WTL Series Spec. VS Other Brands

											XXLX
5.0*3.2/4/OSC	TC5	ASFL1	C2	7C	JO53	- 20	KC5032E- C3	MC156		948	SG5032CAN
7.0*5.0/4/OSC	TC7	ASV	C4	7W	JO75	*1	KC7050A- C3(K53- 3C)	MC157	-	CSX- 750F	SG7050EAN
20.4*12.8/4/OS C	LO1	ACH/ACT	CF/CH	-	•	•	-	MC158	*	-	*
2.5*2.0/4/TCXO	VC2	ASVTX-12		7L	JT22C	•		MC159	-		VG2520CAN
3.2*2.5/4/TCXO	VC3	ASTX-11	942	7Q	JT32C	-	-	MC160	12	9.0	ACT 7SVH-4
5.0*3.2/4/TCXO	VC5	ASTX-09	3.5		JT53C	•	*	*	*	-	ACT 55CSV-

# **Matching Test**



#### **High Level Crystal** Measurement

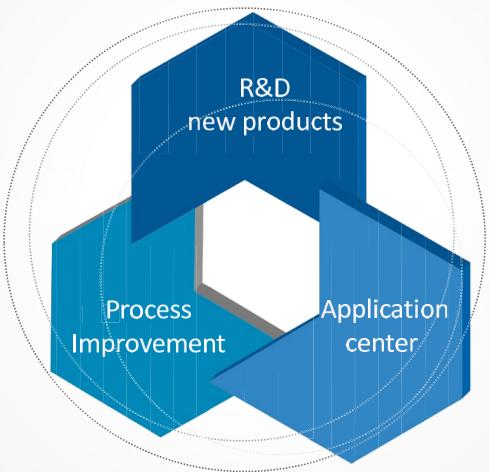
- Electronic Performance
  - General Spec
  - Specific Spec
- Reliability Performance
  - Standard
  - Tailor Made

#### **Technical Training/** Seminar

- Client In-House **Technical Training**
- **Public Seminar**

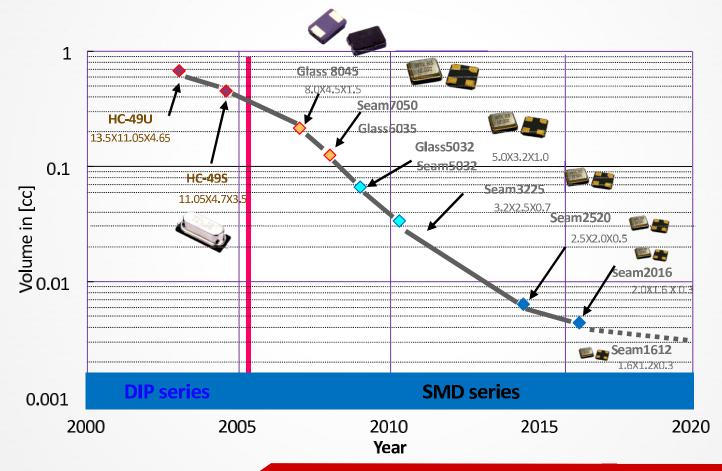






### **Road Map**

**Smaller and SMD** 



**Smart Home** 

**Continuous & Stable Frequency Control Signal** 



### **Smart Wear**



### **ISO9001 Certificate**



#### Quality Management System Certificate

(Original) This is to certify that



#### WTL INTERNATIONAL LIMITED

Registration Address: 505, 5/F, NO.6 FACTORY, ZHONGCHU BUILDING, 4TH BAGUA

Has implemented and maintains a Quality Management System in compliance with

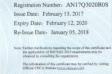
#### ISO 9001:2015

The Quality Management System is applicable to:

#### R&D, SALES OF QUARTZ RESONATOR, FILTER, OSCILLATOR

Involved site (s) and relevant activities

Address	Zip Code	Main Activities
505, 5/F, NO.6 FACTORY. ZHONGCHU BUILDING, 4TH BAGUA ROAD, BAGUALING, FUTIAN DISTRICT, SHENZHEN, GUANGDONG, P.R.CHINA	518029	R&D, SALES OF QUARTZ RESONATOR, FILTER, OSCILLATOR







注册号: AN17Q3020R0S

中國广东省广州平东党在得 110号

颁证日期: 2017.02.13

有效期至: 2020.02.12

换证日期: 2018.01.05 這: 沙克本证书范围和 ISOSIOII 2013 是正的适用任用程。 专业通过向通报前录物而得到把一步的定律。

#### 质量管理体系认证证书

(正本) 兹证明

#### 深圳市维拓精电科技有限公司

统一社会信用代码: 91440300596790719B

注册地址:深圳市福田区八卦岭八卦四路中厨 6 号综合厂房五层 505

#### ISO 9001:2015

标准要求建立并实施了质量管理体系。

#### 石英谐振器、滤波器、振荡器的研发和销售

涉及的场所及相关活动:

场所地址	场所邮编	场所主要活动
一东省深圳市福田区八卦岭八卦 四路中厨 6 号综合厂房 5 层 505	518029	石英谐振器、滤波器。 振荡器的研发和销售



本证书的特性被力取决于定案将受益督审核



### **ISO14001** Certificate



#### Environmental Management System Certificate

(Original) This is to certify that



Registration Number: AN17E2021R0S

Issue Date: February 13, 2017

Expiry Date: February 12, 2020

Re-Issue Date: January 05, 2018

#### WTL INTERNATIONAL LIMITED

Unified Social Credit Identifier: 91440300596790719B

Registration Address: 505, 5/F, NO.6 FACTORY, ZHONGCHU BUILDING, 4TH BAGUA ROAD, BAGUALING, FUTIAN DISTRICT, SHENZHEN, GUANGDONG, P.R.CHINA

ISO 14001:2015

The Environmental Management System is applicable to:

#### R&D, SALES OF QUARTZ RESONATOR, FILTER, OSCILLATOR

Involved site (s) and relevant activities

Address	Zip Code	Main Activities
505, 5/F, NO.6 FACTORY, ZHONGCHU BUILDING, 4TH BAGUA ROAD, BAGUALING FUTIAN DISTRICT, SHENZHEN, GUANGDONG, PR.CHINA	518029	R&D, SALES OF QUARTZ RESONATOR, FILTER, OSCILLATOR



regular surveillance malit and qualified, please scan the OR code



#### 环境管理体系认证证书

(正本) 兹证明



注册号: AN17E2021R0S

注: 本证书信息可在国家认证认可监督管理委员会 TTHA ( www.mrz.goven ) 1.4.60. 中間とちゅと日本日記上場 110 年

颁证日期: 2017.02.13

有效期至: 2020.02.12

换证日期: 2018.01.05

#### 深圳市维拓精电科技有限公司

统一社会信用代码: 91440300596790719B

注册地址: 深圳市福田区八卦岭八卦四路中厨 6 号综合厂房五层 505

已按照

#### ISO 14001:2015

标准要求建立并实施了环境管理体系。 该管理体系适用于

#### 石英谐振器、滤波器、振荡器的研发和销售

涉及的场所及相关活动:

场所地址	场所邮编	场所主要活动
广东省深圳市福田区八卦岭八卦 四路中居 6 号综合厂房 5 层 505	518029	石英谐振器、滤波器、 振荡器的研发和销售



本证书的持续成为取决于沈阳径亚监督审核 安林市场合格, 有关相为使扫描二维码



# **RoHS Compliant**



Test Report

No. SZXEC1800169103

No. SZXEC1800169103

Date: Test Report Sample photo:

No. SZXEC1800169103

SZXEC1800169103

Date: 09 Feb 2018 Page 6 of 6

WTL INTERNATIONAL LIMITED

ROOM 505, 5TH FLOOR, NO 6 FACTORY, ZHONG CHU BUILDING Test Part Description :

LING.FUTIAN DISTRICT.SHENZHEN

Test Report

Test Results:

Specimen No. SGS Sample ID Description SZX18-001691.002 "HC 49S"(mixed)

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL - Method Detection Limit

(3) ND = Not Detected ( < MDL)

(4) \*- \* - Not Regulated

The following sample(s) was/were submitted and identified on behalf  $\epsilon^{-\text{Remarks}}$  :

SGS Job No. RP18-001600 - SZ

Model No.: HC49S

Client Ref. Info. : HC-49U,HC-50U,HC-49T,UM-1,UM-5,2

ZTD.ZTC.TO-39.F11.D11.MCF DIP.2%

Date of Sample Received: 06 Feb 2018

Testing Period: 06 Feb 2018 - 09 Feb 2018

Test Requested Test Method: Please refer to next page(s).

Test Results :

62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES

Please refer to next page(s).

Test Item(s) Cadmium (Cd) 100 mg/kg Lead (Pb) 1,000 mg/kg Mercury (Hg) 1,000 mg/kg 1,000 Hexavalent Chromium (Cr(VI)) ma/ka Sum of PRRs. 1,000 mg/kg Monobromobiphenyl Dibromobiphenyl

**Tribromobiphenyl** Tetrabromobiphenyl Pentabromobiphenyl Hexabromobiphenvi

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Hantabeamobinhanyl Octabromobiphenyl Nonabromobiphenyl

Decahromobiphenvi Monobromodiphenyl ether

Tribromodiphenyl ether Tetrabromodiphenyl ether

Elementary Analysis, Flame Retardants & Phthalate(s)

Selected test(s) as requested by client. Test Method: With reference to IEC 62321.4:2013+A1:2017, IEC62321-6:

mg/kg

mg/kg

mg/kg

mg/kg mg/kg mg/kg mg/kg ma/ka mg/kg

mg/kg mg/kg mg/kg mg/kg Dibromodiphenyl ether mg/kg

Pentabromodiphenyl ether

SGS authenticate the photo on original report only \*\*\* End of Report \*\*\*

SZX18-001691.002

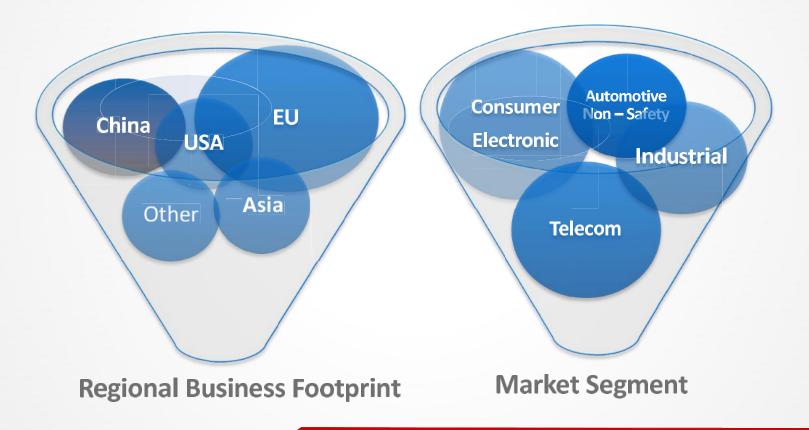


Approved Signatory

Kenny Li

◆書・耳音・北西区和耳目中部4五円月第三十四月525分替 - 新衛: 910/25 1 (85-755/255)M

### **WTL SCALE**



### **Footprints & Partners**



**❖** WTL sells to 72 countries and **regions (2017)** 



#### **Some Customers**







Honeywell | Security

















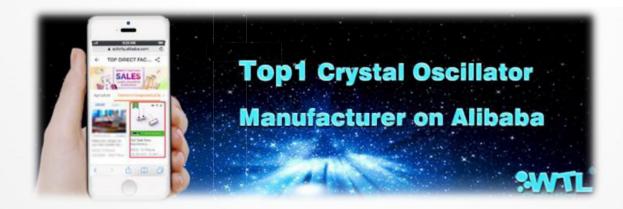


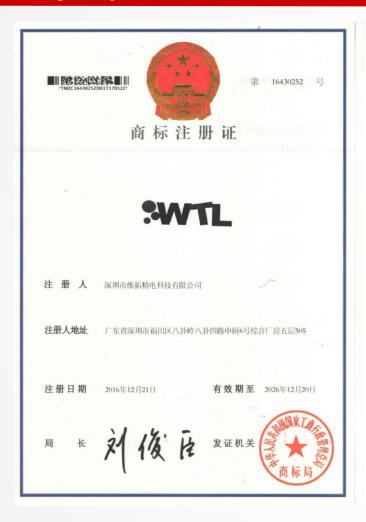
### Offline & Online



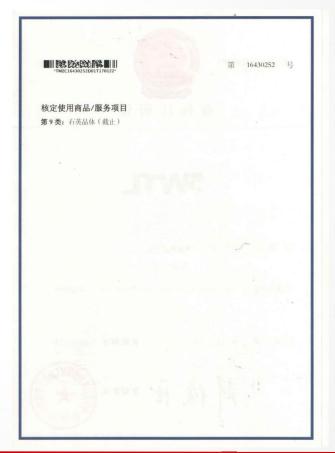
November 13-16,2018 Messe München



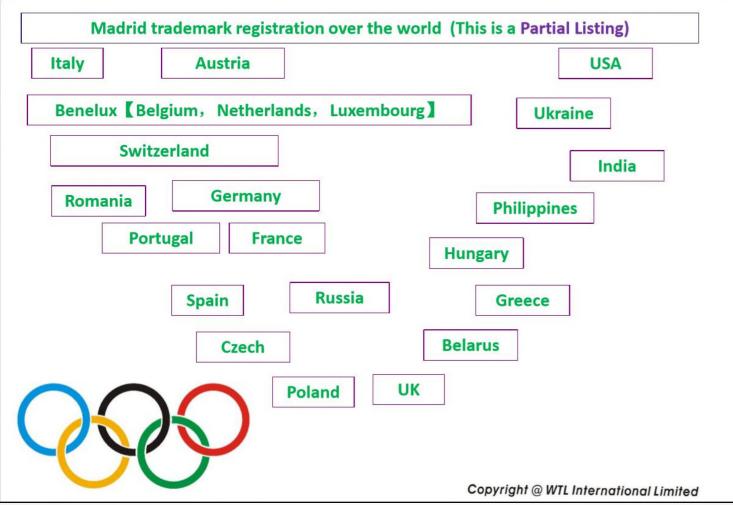




# **Trademark Registered In China**



### **Madrid Trademark (Global)**



### **Some Distributos**







































### Contact us!

• Tel: +86-755-82677582

Cell: +86 137 5115 3787

• Email: wtl@wtlcrystals.com

• Skype: wtl.lily

Youtube @ WTL factory:

https://www.youtube.com/watch?v=0BCFnas3ruA



- ✓ Current case
- ✓ More design-in and Across?





# THANKS

**WTL International Limited** 

**Frequency Oscillator Experts** 

