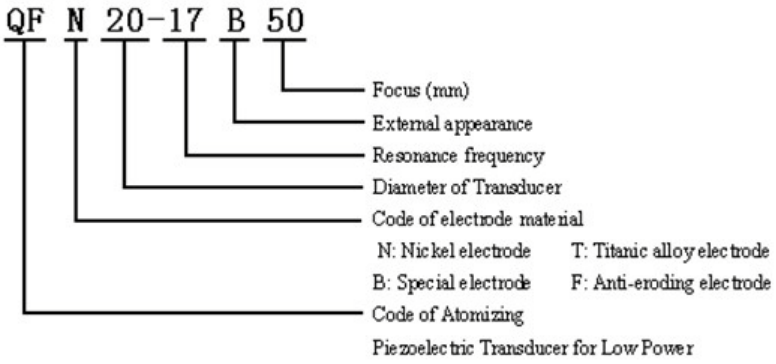
MODEL



MAIN APPLICATIONS

- Nebulizer
- Humidifier
- Other atomizers

FEATURES

- High efficiency – ultrasonic focus technology, 67% power saved.
- Longer lifetime
- Tiny fog particle (min. 2 μm).
- Work in both water and other liquid except some special liquid.
- Abundant negative ions produced, about 30000～150000/cm^3.

*External appearance of atomizing transducer

A: Including cord and seal ring

B: Including cord and framework

C: Including cord, seal ring and metal cover

Empty: Naked wafer

SPECIFICATIONS

CHARACTERISTICS

Model[1]	Frequency	Input Voltage	Power	Flow Rate	Droplet Size
	MHz	V(DC)	W	ml/h±20%	μm
QFX20-20X60	2.0	24	8-20	80-400	4
QFX20-20X50	2.0	24	8-20	80-400	4
QFX20-20X40	2.0	24	8-20	80-400	4
QFX15-20X50	2.0	24	8-13	80-250	4
QFX15-20X40	2.0	24	8-13	80-250	4
QFX15-20X30	2.0	24	8-13	80-250	4
QFX15-25X50	2.5	12	3-8	20-200	3
QFX15-25X40	2.5	12	3-8	20-200	3
QFX15-25X30	2.5	12	3-8	20-200	3
QFX15-30X30	3.0	12	2.5-8	10-80	2
QFX12-25X30	2.5	12	2-6	8-60	3
QFX12-30X30	3.0	12	2-6	7-50	2

	Resonance Impedance (Max)	Static Capacitance	Water Temp.	Water Level	Life Time[2]
	Ω	pF±20%	°C	mm	hour
	1.5	2720	0-50	35-45	5000
	1.5	2480	0-50	30-40	3000
	1.5		0-50	25-35	5000
	1.5	1390	0-50	30-40	5000
	1.5	2300	0-50	25-35	5000
	1.5	1420	0-50	18-28	5000
	1	1600	0-50	30-40	5000
	1	1650	0-50	25-35	5000
	1	1670	0-50	18-28	5000
	1	1800	0-50	18-28	10000
	1.5	1250	0-50	18-28	10000
	1	1550	0-50	18-28	10000

[1] The models above include all types of electrode material and appearance.

[2] Life time means to keep such condition (max. power) as the transducer emits fog output more than 70% of initial one, provided the surface of transducer should be cleaned.

N.B. The “N” electrode is suitable for drinking water; The “B” electrode is suitable for sea water; The “F” electrode is suitable for disinfecting medicine liquid.

DIMENSIONS OF THE TRANSDUCER (mm)

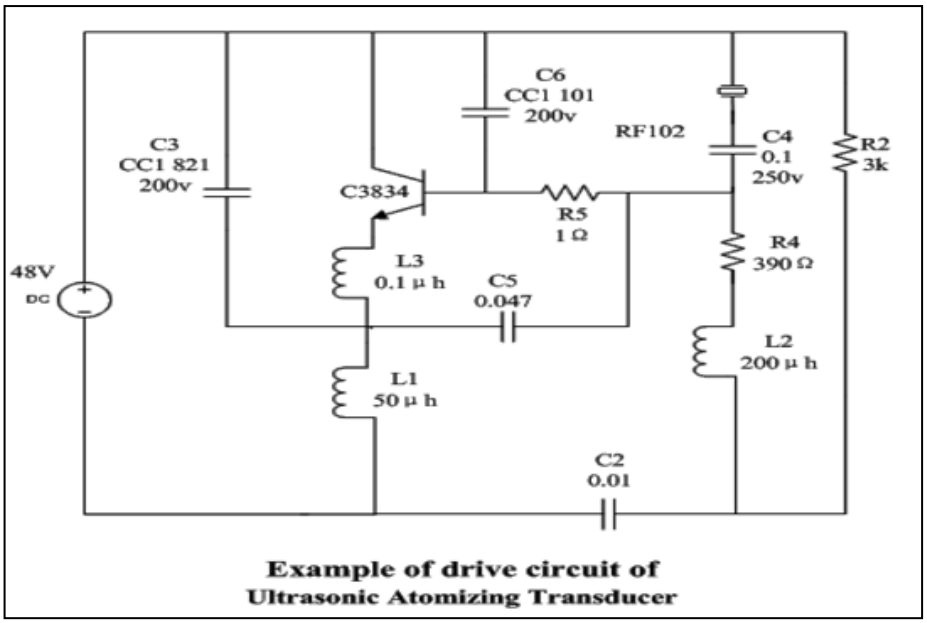
Model	Φ1	Φ2	H1	H2	L1	L2	L3	W
QFX20-XXAX	23.7	17	11.5	3.5	—	—	80	—
QFX20-XXCX	23.7	17	11.5	3.5	42	32	70	30
QFX15-XXAX	19	12	8.7	2.7	—	—	60	—
QFX15-XXCX	19	12	8.7	2.7	34	26	50	23.5
QFX12-XXAX	15	9	6.8	2	—	—	60	—
QFX12-XXCX	15	9	6.8	2	30	22	50	18.6

The dimension of QFX20-XXBX is shown in the drawing of the last page.

TECHNICAL NOTES

- The transducers should work in drinking water or similar liquids .If liquids have an acidity of less than pH5 or an alkalinity of greater than pH8, it could result in the performance of transducers decay, even permanently damage. Therefore, the transducers cannot work in the liquid that is excessively alkaline (pH>8) or acidic (pH<5).
- Provide a protective “low water” shut-off circuit (we highly recommend the float switch. **PLEASE DON’T USE ELECTRODE CONTROL FOR “NO WATER” PROTECTION!)**).The transducers can NEVER work without water or other liquid in contact with them even a short time.
- Design a circuit to assure no voltage difference appears between surface of transducer and water.
- The surface of transducers should be cleaned at times. It will NOT be considered as the quality problem on transducers, if the atomizing effect of transducers is lowered due to substances contained in water or other liquid such as Ca, Na, Mg and Si etc. adhering to the transducers surface.

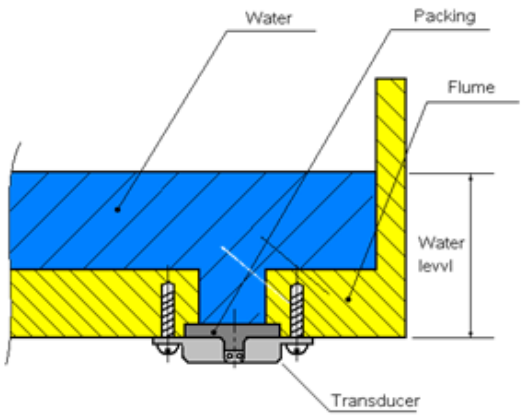
REFERENCE DRIVE CIRCUIT

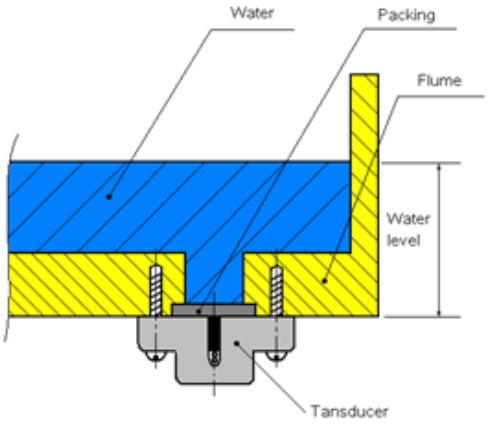


Example of drive circuit of
Ultrasonic Atomizing Transducer

*The circuit above is just a reference rather than Siansonic standard drive circuit.

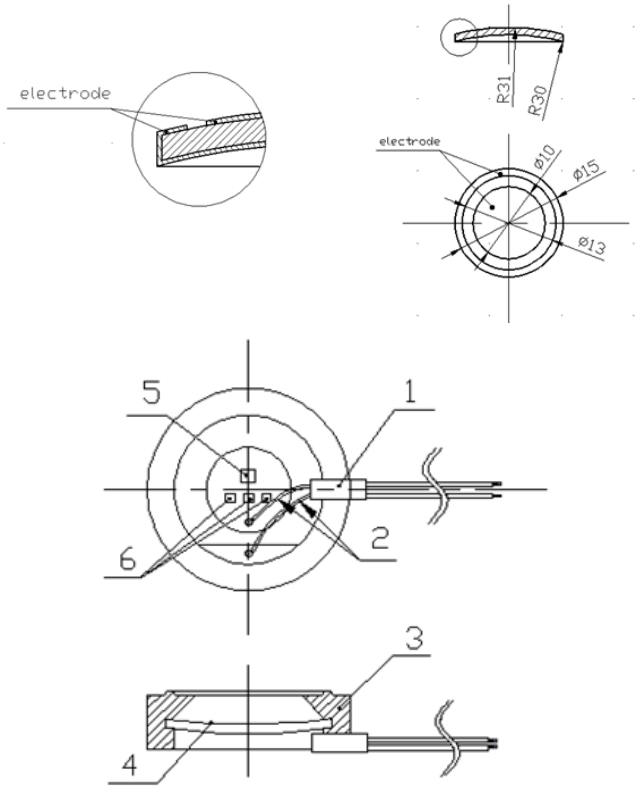
INSTALLATION ILLUSTRATIONS





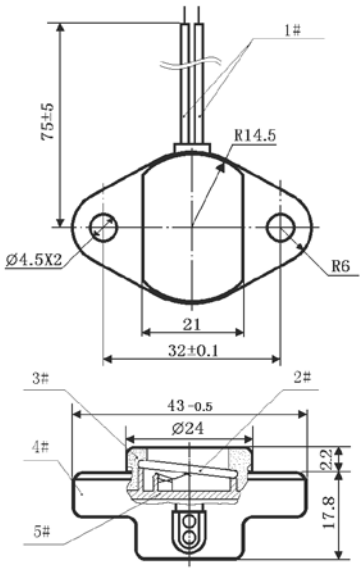
MECHANICAL DIMENSIONS

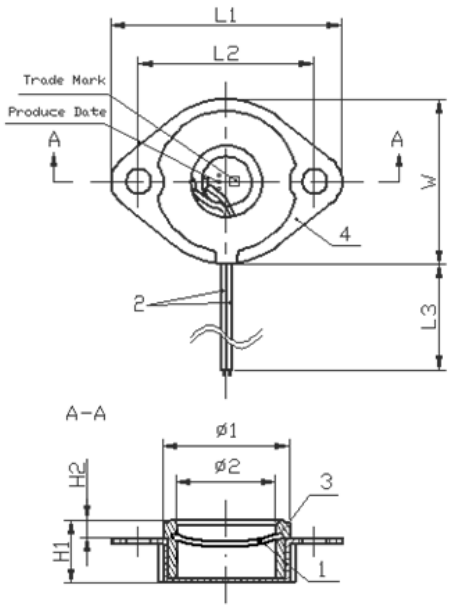
QFX15-2030



NO	QTY	DESCRIPTION
1#	1	BUSHING
2#	2	LEAD WIRES
3#	1	RUBBER RING
4#	1	PIEZOELECTRIC WAFER
5#	1	TRADE MARK
6#	1	PRODUCT DATE

QFXX—XBX / QFXX—XCX





QFX20—XBX		
NO	QTY	DESCRIPTION
1	2	LEAD WIRES
2	1	PIEZOELECTRIC WAFER
3	1	RUBBER RING
4	1	HOLDING CAP
5	1	FRAMEWORK

QFXX—XCX		
NO	QTY	DESCRIPTION
1#	1	PIEZOELECTRIC WAFER
2#	2	LEAD WIRES
3#	1	RUBBER RING
4#	1	HOLDING CAP

Siansonic Technology Ltd. (JR Ultrasonic Co.,Ltd)
No.1, Xingguang 5th Steet, Opto-Mechatronics Industrial Base, Tongzhou Park,
Zhongguan Village Technology Park 101111, Beijing, China

Tel: +86 10 81502288
Fax: +86 10 81502688
E-mail: info@siansonic.com