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PRODUCT SPECIFICATION SHEET

PRELIMINARY DATASHEET

CUSTOMER	:	
PRODUCT TYPE	:	2.0x6.0 TF
NOMINAL FREQ.	:	32.768000 KHz
FL P/N	:	D2SQ327001
REVISION	:	S0
CUSTOMER P/N	:	

CUSTOMER'S APPROVAL&DATE

FL CORPORATION

APPROVED	CHECKED	DESIGNED
Liu Feng	Liao Xiaohua	Li Xiang

MSL1

RoHS Compliant

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- SPECIFICATION REVISION RECORD SHEET 2
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- DIMENSIONS & MARKING 4

ATTACHMENT（optional）

- ELECTRICAL CHARACTERISTICS TEST A ☐ YES ☑ NO
- TEMPERATURE CHARACTERISTICS TEST B ☐ YES ☑ NO

PRELIMINARY DATASHEET

SPECIFICATION REVISION RECORD SHEET

Rev.	Revise page	Revise Contents	Date	Ref. No.	Reviser
S0	N/A	Initial released	7-Nov-23	N/A	Li Xiang

PRELIMINARY DATASHEET

PRODUCT DESCRIPION

Standard atmospheric conditions

Unless otherwise specified. The standard range of atmospheric conditions for making measurement and tests are as follow:

Ambient temperature 25±2℃
Relative humidity 40%~70%

If there is no doubt the results, measurement shall be made within the following limits:

Ambient temperature 25±2℃
Relative humidity : 40%~70%

Measure equipment

Electrical characteristics measured by S&A250B or equivalent.

Crystal cutting type

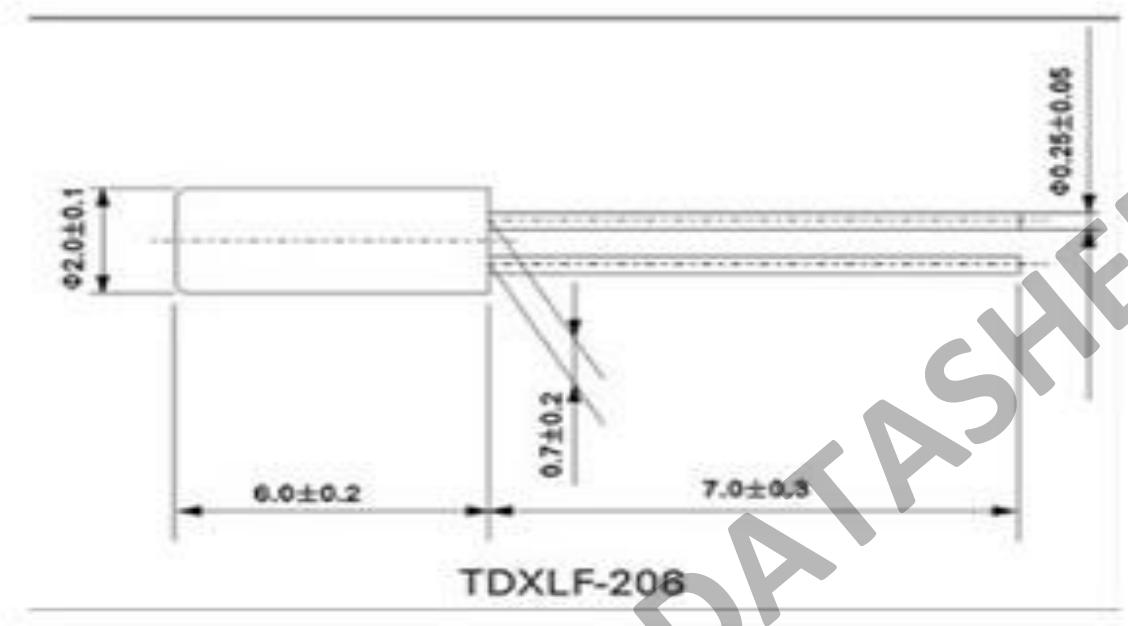
The crystal is using AT CUT (thickness shear mode)

ELECTRICAL SPECIFICATIONS

No.	Items	Electrical Spec.					Remarks
		Symbol	Min	Typ	Max	Units	
1	Nominal Frequency	FL	32.768000			KHz	-
2	Load Capacitance	CL	12.5			pF	-
3	Frequency Tolerance	-	-10	-	-20	ppm	at 25±3°C
4	Shunt Capaitance	C0	-	1.3	-	pF	-
5	Operating Temperature	-	-10	-	60	°C	-
6	Storage Temperature Range	-	-30	-	70	°C	-
7	Drive Level	DL	-	-	1.0	uW	-
8	Effective Resistance	ESR	-	-	35	KΩ	at 25±3°C
9	Insulation Resistance	IR	-	-	-	M-ohm	-
10	Aging	-	±5			ppm/year	at 25±3°C

PRELIMINARY DATASHEET

DIMENSIONS **UNITS: MM**



MARKING

YL
XXXX D G KK

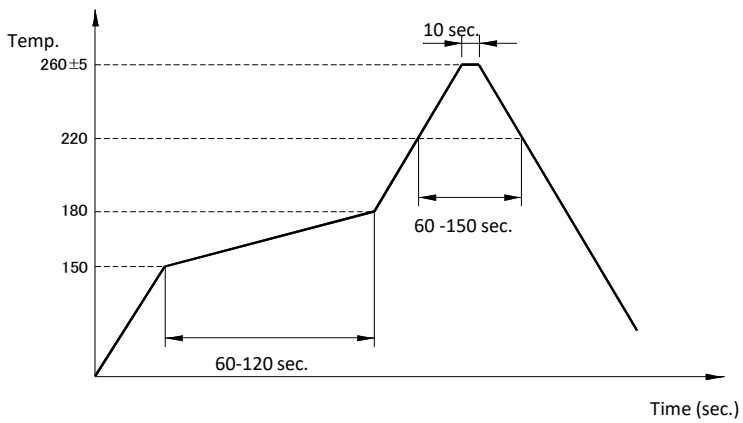
XXXX：Frequency
D：Administrative Symbol
G：Year month code
KK：Lot No.

year \ month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2021	2025	A	B	C	D	E	F	G	H	J	K	L	M
2022	2026	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	2027	a	b	c	d	e	f	g	h	j	k	l	m
2024	2028	n	p	q	r	s	t	u	v	w	x	y	z

SUGGESTED REFLOW PROFILE

Total time : 360 sec. Max.

Solder melting point :225 °C



PRELIMINARY DATASHEET



PRELIMINARY DATASHEET