

TCXO

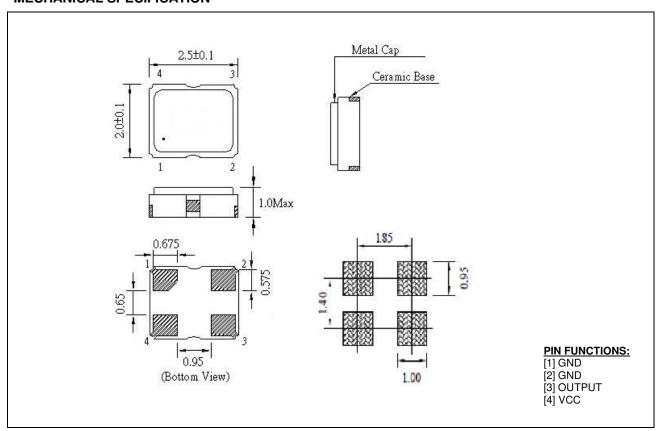
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■ ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25℃	26.000	MHz
Supply Voltage, nom	Vcc	Vcc ±5%	1.8	VDC
Supply Current, max	Is	Vcc ±5%	2	mA
Operating Temperature Range	Ta		-40 ~ +85	°C
Storage Temperature Range	T(stg)	Absolute max	-40 ~ +85	℃
Frequency Stability vs. Temperature max vs. Supply Voltage max vs. Load max vs. Aging max	Δf/fo(Ta) Δf/fo(Ta) Δf/f _V Δf/f _L Δf/fo(year)	Reference to $+25^{\circ}\text{C}$ over $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$ Reference to $+25^{\circ}\text{C}$ over $-40^{\circ}\text{C} \sim -30^{\circ}\text{C}$ Vcc $\pm 5\%$ Load $\pm 10\%$ First year at $+25^{\circ}\text{C} \pm 2^{\circ}\text{C}$	±0.5 ±4.0 ±0.2 ±0.2 ±1.0	ppm ppm ppm ppm ppm
Initial Frequency Calibration, max	fc	Measured at 25℃, after 2 times reflows	±2.0	ppm
Output Level, Clipped Sine Wave, min		10kΩ // 10 pF ±10%,	0.8	V_{P-P}
Harmonics, max			-8.0	dBc
Start-up Time, max	Ts	V _{OUT} ≥ 90% V _{P-P}	2.5	ms
Phase Noise @ Freq. Offset, max	£ (∆f)	$\Delta f = 1 \text{ kHz}$	-130	dBc/Hz

MECHANICAL SPECIFICATION

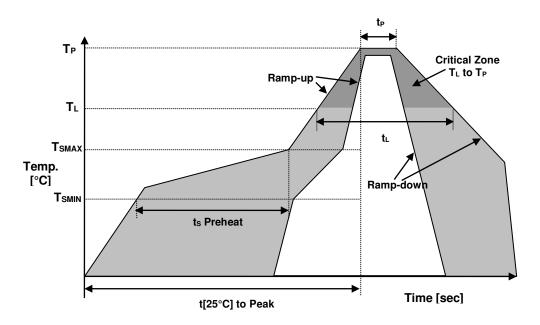




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REFLOW PROFILE



	Reflow profile	
Temperature Min Preheat	T _{SMIN}	150°C
Temperature Max Preheat	T _{SMAX}	200°C
Time (T _{SMIN} to T _{SMAX})	ts	60-180 sec.
Temperature	TL	217°C
Peak Temperature	T _P	260°C
Ramp-up rate	Rup	3°C/sec max.
Ramp-down rate	R _{DOWN}	6°C/sec max.
Time within 5°C of Peak Temperature	t₽	10 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	tL	60-150 sec.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH	Compliant
RoHS	Compliant
TERMINATION FINISH	Au





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MARKING

Rx26.00 • AD31yw

x – Internal Production ID code

y – Year code

w - Week code

YEAR CODE		
Year	Code	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	

	ALPHA WEEK CODE TABLE				
Week	Code	Week	Code	Week	Code
1	а	19	S	37	K
2	b	20	t	38	L
3	С	21	u	39	М
4	d	22	٧	40	N
5	е	23	W	41	0
6	f	24	Х	42	Р
7	g	25	У	43	Q
8	h	26	Z	44	R
9	i	27	Α	45	S
10	j	28	В	46	T
11	k	29	С	47	U
12	I	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	Х
15	0	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35			
18	r	36	J		

APPROVAL

RALTRON		
DRAWN BY:	FP, 21 January 2014	
APPROVED BY:	FP, 21 January 2014	
REVISION:	A, Initial Release	
	B, FP, 12 June 2014	
	C, Updated to current spec levels by	
	XLiu, March 23, 2020	

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