

Travelling Merchant: _____

DATASHEET

Standard: **T53-I319-19.20MHz**

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date:			

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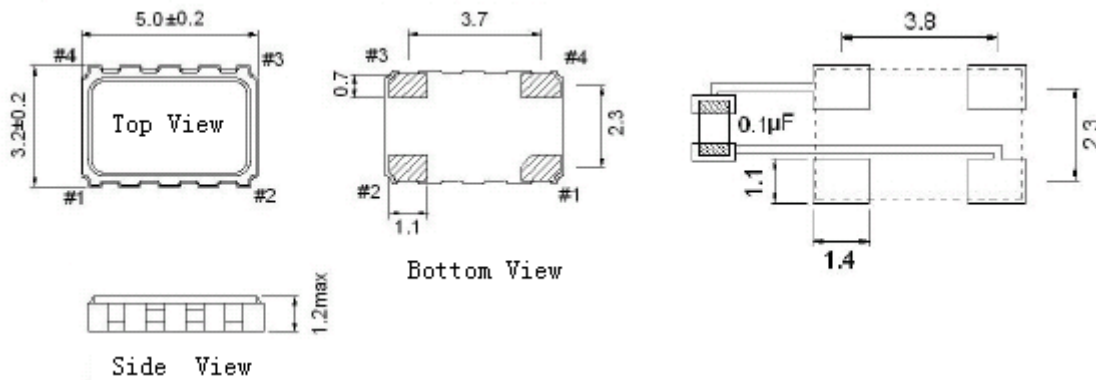
1. Electrical Parameters

MODEL: T53-I319-19.20MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	19.20			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			2.97	V	$V_{cc}=3.3V, O_{load}=15pF$
	Output High Voltage	0.33			V	$V_{cc}=3.3V, O_{load}=15pF$
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			6	ns	@25°C
	Load		15		pF	
	Start-up Time			2	ms	
	Input Logic High			2.31	V	
	Input Logic Low	0.99			V	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-2.5		+2.5	ppm	T_A varied from -40°C to 85°C, measurement referenced to frequency observed with $T_A=25^\circ C, V_{cc}=3.3V, O_{load}=15pF$.
	Initial Frequency Tolerance	-1		+1	ppm	Measurement referenced to frequency observed with $T_A=25^\circ C, V_{cc}=3.3V$, and after 5s of operation, within 30 days after ex-works
	Frequency Tolerance vs. Supply Voltage	-0.5		+0.5	ppm	measurement referenced to frequency observed $T_A=25^\circ C, V_{cc}$ varied from 3.13V to 3.47V, $O_{load}=15pF$.
	Frequency Tolerance vs. Load	-0.2		+0.2	ppm	5% load change measurement referenced to frequency observed with $T_A=25^\circ C,$ $V_{cc}=3.3V, O_{load}=15pF$.
	Aging Tolerance per day	-0.02		+0.02	ppm	$T_A=25^\circ C, V_{cc}=3.3V$, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	ppm	
Power Supply	Current Consumption			3	mA	@25°C, $V_{cc}=3.3V, O_{load}=15pF$.
	Supply Voltage	3.13	3.3	3.47	V	



Phase Noise	Phase Noise		-70		dBc/Hz	10Hz
			-110			100Hz
			-138			1KHz
			-155			10KHz
			-160			100KHz
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+125	°C	
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z), IEC 68-2-06 Test Fc.				
	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y , Z),IEC 68-2-27 Test Ea/Severity 50A.				

2. Mechanical Structure (mm)



PIN FUNCTION

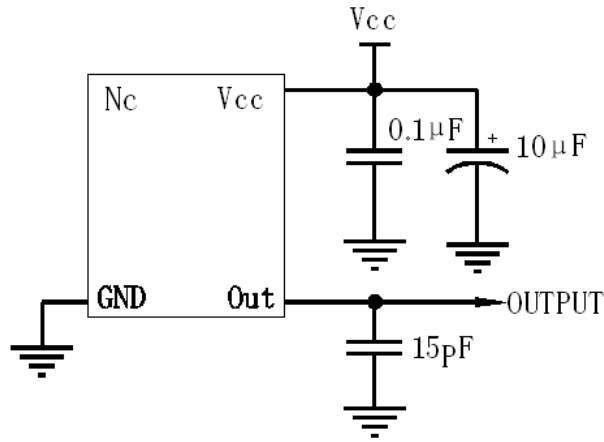
PIN	FUNCTION
1	E/D
2	GND
3	OUTPUT
4	VCC

Note1: Tolerance ±0.1mm without mark

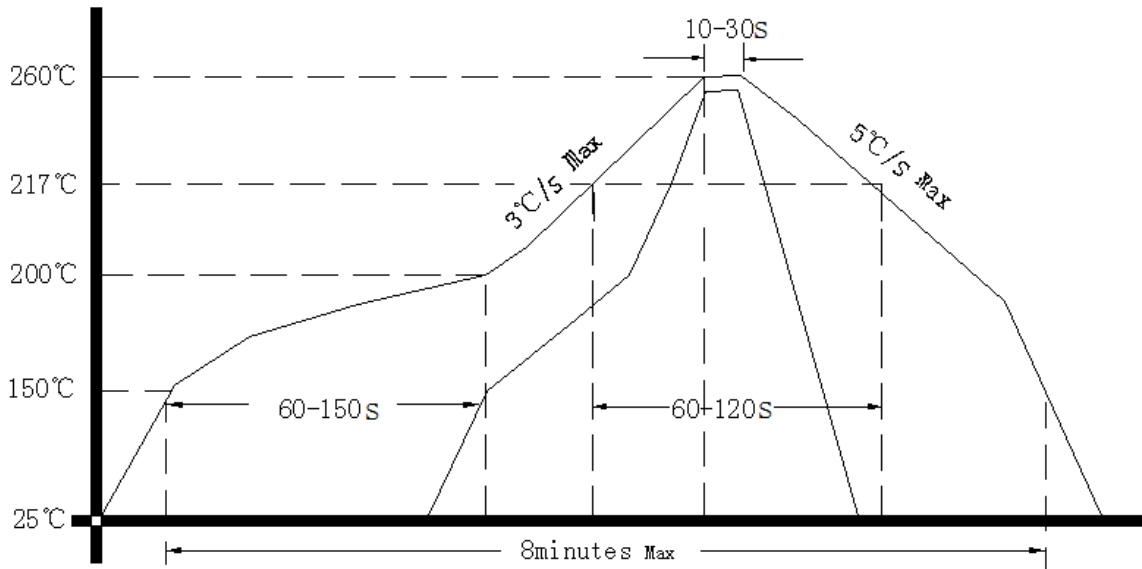
Note2: Referential Weight 0.1g



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

