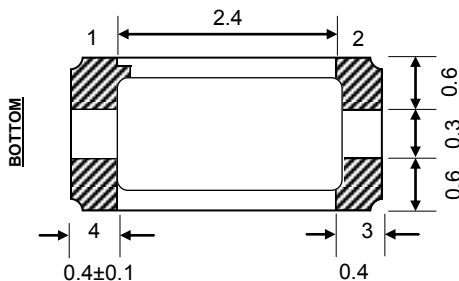
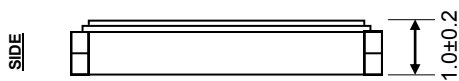
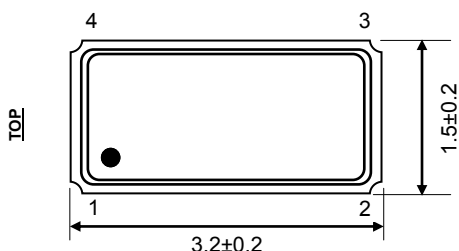


**MINIATURE SMD OSCILLATOR (3.2 x 1.5 x 1.0mm)**
**FEATURES:**

- CMOS OUTPUT @ 32.768kHz
- LOW POWER CONSUMPTION
- TUNING FORK CRYSTAL BUILT IN

**■ SPECIFICATION**

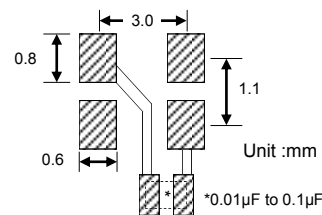
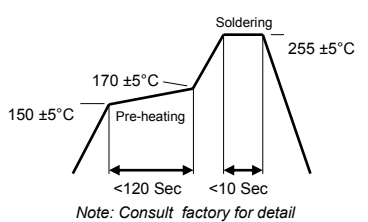
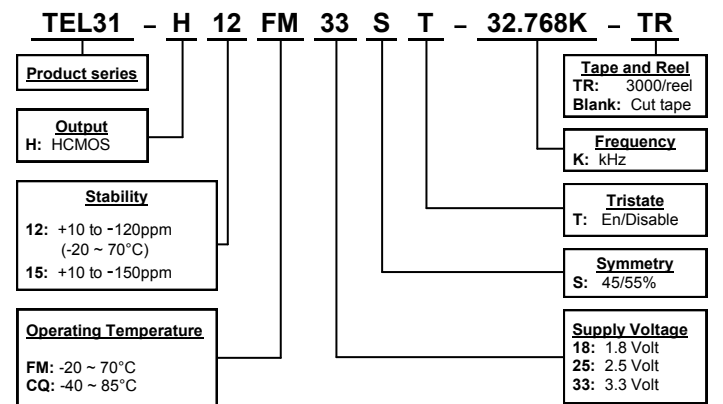
PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE
FREQUENCY			32.768		kHz	
FREQUENCY TOLERANCE @ 25°C		-18		+28	ppm	
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	-150		+10	ppm	See P/N guide for other options
	vs. SUPPLY VOLTAGE ± 5%			±2.0	ppm	
OPERATING TEMPERATURE RANGE		-40		85	°C	See P/N guide for other options
STORAGE TEMPERATURE RANGE		-55		125	°C	
SUPPLY VOLTAGE ±10%		1.8		3.3	V	See P/N guide for other options
SUPPLY CURRENT			0.8	1.5	µA	@ V <sub>DD</sub> =3.3V, no load (Pin#1=V <sub>IH</sub> )
STAND-BY CURRENT			0.35		µA	No load
OUTPUT	LOGIC FAMILY	HCMOS				
	LOAD			15	pF	
	LEVEL LOGIC '1' (V <sub>OH</sub> )	0.9 x V <sub>DD</sub>			V	
	LEVEL LOGIC '0' (V <sub>OL</sub> )			0.1 x V <sub>DD</sub>	V	
	SYMMETRY(DUTY CYCLE)	45		55	%	
	RISE AND FALL TIME (Tr/Tf)			100	nS	@ CL=15pF, 25°C
STAND-BY VOLTAGE	START-UP TIME			1	sec	@ V <sub>DD</sub> =3.3V
	ENABLE (V <sub>IH</sub> )	0.9 x V <sub>DD</sub>			V	@ V <sub>DD</sub> =3.3V, 25°C
ENABLE DELAY TIME	DISABLE (V <sub>IL</sub> )			0.1 x V <sub>DD</sub>	V	See P/N guide for other options
	DISABLE DELAY TIME			1	sec	
AGING @ +25°C ±3°C				100	nS	
				±3.0	ppm/yr	@1 <sup>st</sup> year

**■ PACKAGE DIMENSIONS**


Unit : mm

Pin Configuration		
1	Disable or Open	Enable
2	GND	
3	Z*	Output
4	V <sub>DD</sub>	

\*Z: high impedance

**■ SOLDER PATTERN**

**■ REFLOW PROFILE**

**■ PART NUMBERING GUIDE**


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