

MINIATURE SMD OSCILLATOR (3.2 x 1.5 x 1.0mm)

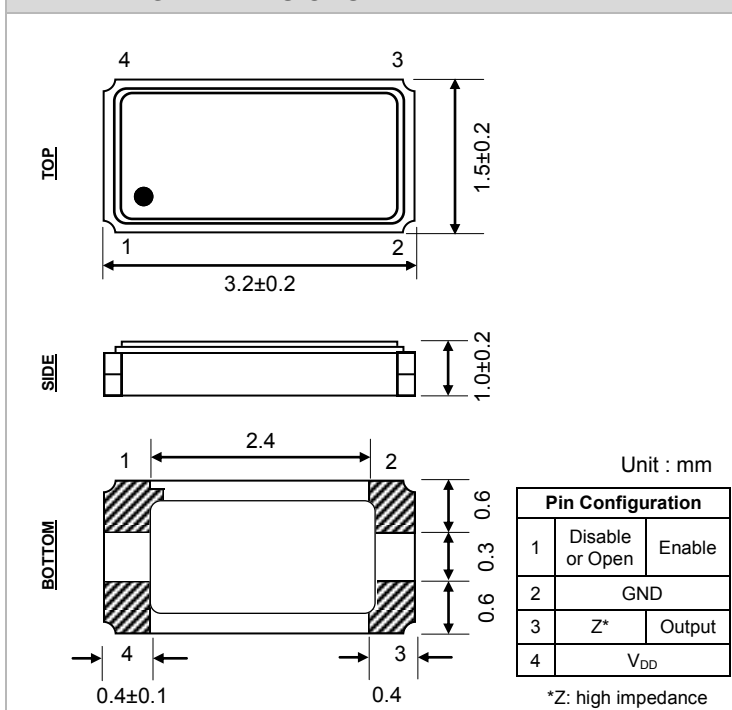
FEATURES:

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

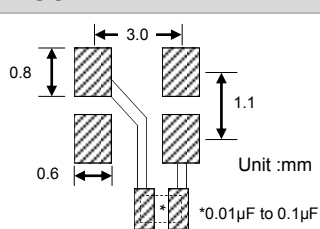
■ SPECIFICATION

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 $\pm 5\%$			± 2.0	ppm	
OPERATING TEMPERATURE RANGE		-40		85	°C	See P/N guide for other options
STORAGE TEMPERATURE RANGE		-55		125	°C	
SUPPLY VOLTAGE $\pm 10\%$		1.8		3.3	V	See P/N guide for other options
SUPPLY CURRENT			0.8	1.5	μA	@ $V_{DD}=3.3\text{V}$, no load (Pin#1= V_{IH})
STAND-BY CURRENT			0.35		μA	No load
OUTPUT	LOGIC FAMILY	HCMOS				
	LOAD			15	pF	
	LEVEL LOGIC '1' (V_{OH})	$0.9 \times V_{DD}$			V	
	LEVEL LOGIC '0' (V_{OL})			$0.1 \times V_{DD}$	V	
	SYMMETRY(DUTY CYCLE)	45		55	%	
	RISE AND FALL TIME (T_r/T_f)			100	nS	@ $CL=15\text{pF}$, 25°C
STAND-BY VOLTAGE	START-UP TIME			1	sec	@ $V_{DD}=3.3\text{V}$
	ENABLE (V_{IH})	$0.9 \times V_{DD}$			V	@ $V_{DD}=3.3\text{V}$, 25°C
	DISABLE (V_{IL})			$0.1 \times V_{DD}$	V	See P/N guide for other options
ENABLE DELAY TIME				1	sec	
DISABLE DELAY TIME				100	nS	
AGING @ +25°C $\pm 3^\circ\text{C}$				± 3.0	ppm/yr	@ 1 st year

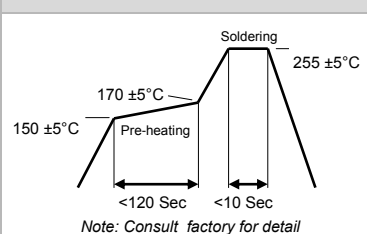
■ PACKAGE DIMENSIONS



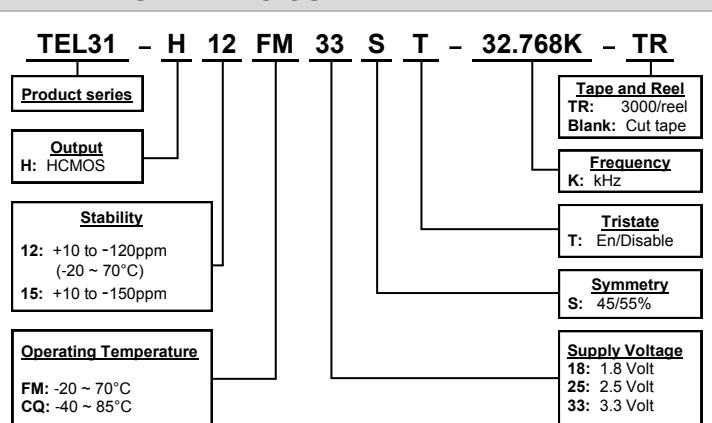
■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE



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