

ULTRA MINITURE CERAMIC SMD TCXO / VCTCXO (2.0 x 1.6 x 0.7mm)

FEATURES

- HIGH STABILITY UP TO $\pm 0.5\text{ppm}$
- CLIPPED SINE WAVE FORM
- GPS APPLICATION

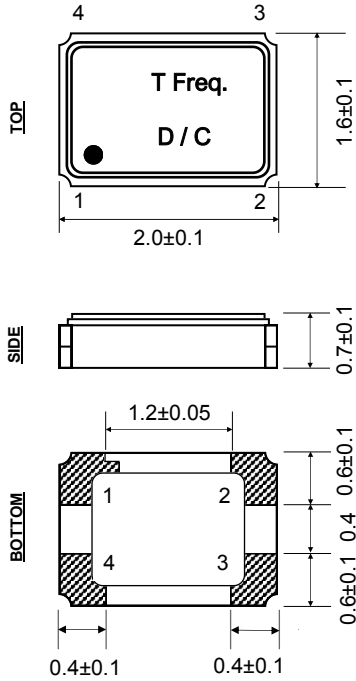


■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE
FREQUENCY RANGE		13		52	MHz	
STANDARD FREQUENCIES		16.368M, 16.369M, 19.2M, 26M, 27.456M, 33.6M, 38.4M, 52M				
FREQUENCY TOLERANCE				± 1.5	ppm	
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	± 0.5		± 2.0	ppm	See P/N guide for other options
	vs. LOAD $\pm 10\%$			± 0.2	ppm	
	vs. SUPPLY VOLTAGE $\pm 5\%$			± 0.2	ppm	
	vs. AGING			± 1.0	ppm	
OPERATING TEMPERATURE RANGE		-30		85	$^{\circ}\text{C}$	See P/N guide for other options
STORAGE TEMPERATURE RANGE		-40		85	$^{\circ}\text{C}$	
SUPPLY VOLTAGE $\pm 5\%$		1.8		3.3	V	See P/N guide for other options
SUPPLY CURRENT	$13\text{MHz} \leq f \leq 30\text{MHz}$			1.5	mA	
	$30\text{MHz} < f \leq 40\text{MHz}$			1.7	mA	
	$40\text{MHz} < f \leq 52\text{MHz}$			2	mA	
OUTPUT	LOGIC FAMILY	Clipped sine wave (DC-coupling)				
	LOAD	10k Ω //10pF				
	LEVEL	0.8			V _{P-P}	
	START-UP TIME			2.0	mS	
STAND-BY VOLTAGE	ENABLE(V _{IH})	$0.8 \times V_{DD}$			V	See P/N guide for other options
	DISABLE(V _{IL})			$0.2 \times V_{DD}$	V	
FREQUENCY DEVIATION	1.8V	± 8.0		± 13.0	ppm	See P/N guide for other options
	2.5 ~ 3.3V	± 9.0		± 15.0	ppm	
CONTROL VOLTAGE	1.8V	0.1		1.7	V	
	2.5 ~ 3.3V	$0.5 \times V_{DD} - 1$		$0.5 \times V_{DD} + 1$	V	
SLOPE		Positive				
PHASE NOISE @ 12.8MHZ	1kHz		-135		dBc/Hz	
HARMONIC				-5	dBc	

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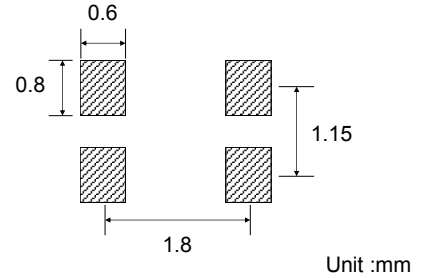
■ PACKAGE DIMENSIONS



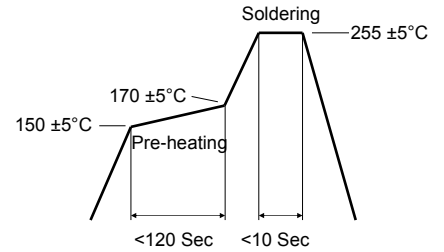
Unit : mm

Pin Configuration			
1	GND	V _c	EN/DIS
2	GND		
3	Output		
4	V _{CC}		

■ SOLDER PATTERN

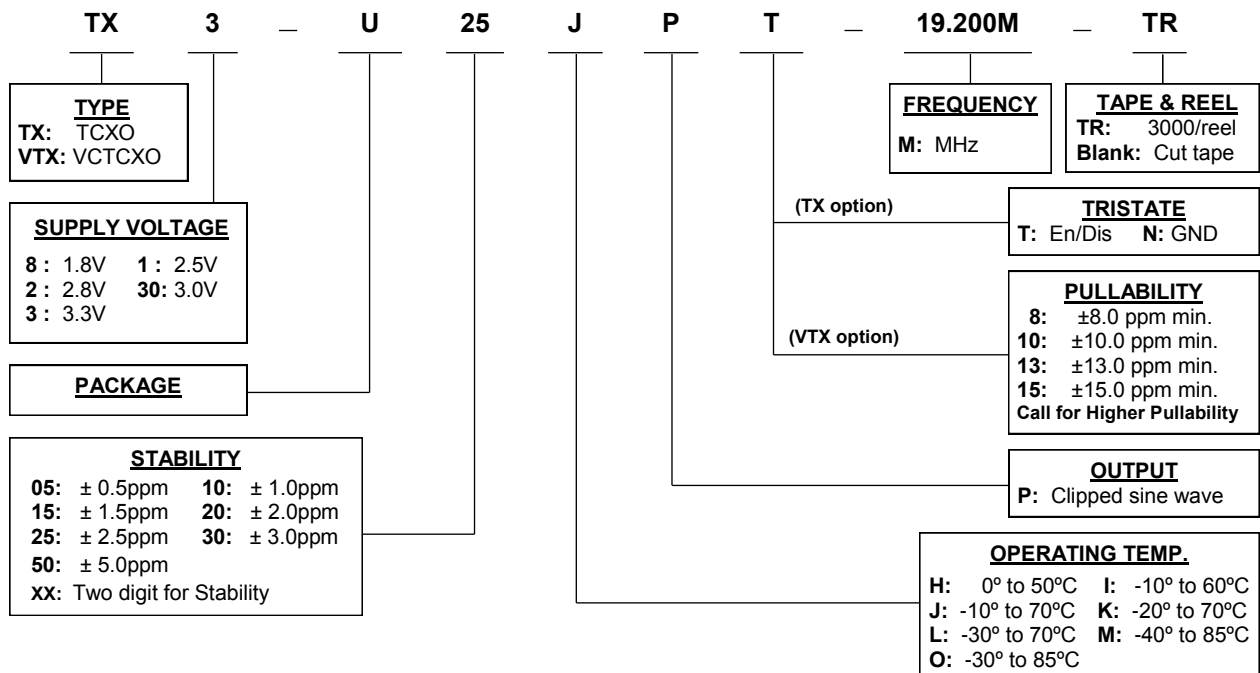


■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE



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