

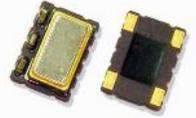
## CERAMIC SMD TCXO / VCTCXO (7.0 x 5.0 x 1.9mm)

### FEATURES

- HIGH PRECISION UP TO  $\pm 0.2\text{ppm}$
- COMPACTNESS AND LIGHT WEIGHT
- LOW POWER CONSUMPTION

### APPLICATION:

- Femtocell, Base Station
- WLAN/WiMAX/Wi-Fi, Wireless Communications
- Mobile Phone

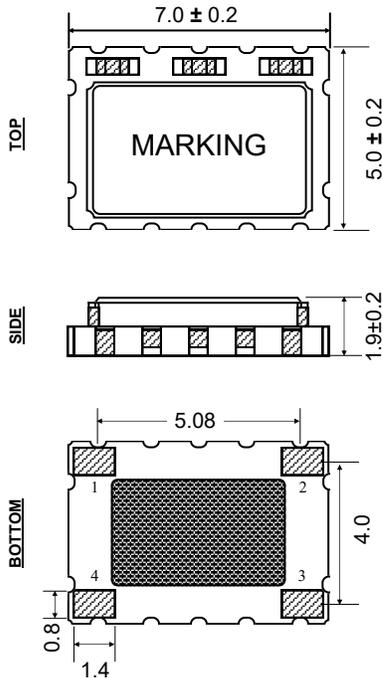


### ■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE		5		40	MHz		
STANDARD FREQUENCIES		10M, 12.8M, 16M, 16.384M, 19.2M, 19.44M, 20M, 25M, 26M					
FREQUENCY TOLERANCE				$\pm 2.0$	ppm		
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	$\pm 0.05$		$\pm 0.28$	ppm	See P/N guide for other options	
	vs. LOAD $\pm 10\%$			$\pm 0.05$	ppm		
	vs. SUPPLY VOLTAGE $\pm 5\%$			$\pm 0.05$	ppm		
	vs. AGING			$\pm 1.0$	ppm	1st year	
OPERATING TEMPERATURE RANGE		-40		85	$^{\circ}\text{C}$	See P/N guide for other options	
STORAGE TEMPERATURE RANGE		-55		125	$^{\circ}\text{C}$		
SUPPLY VOLTAGE		3.135		3.465	V		
SUPPLY CURRENT	CMOS			8	mA		
	CSW			5	mA		
OUTPUT	LOAD	CMOS	15pF				
		CSW	10k $\Omega$ //10pF				
	LEVEL	CMOS ( $V_{OH}$ )	$V_{DD} \times 0.90$			V	
		CMOS ( $V_{OL}$ )			$V_{DD} \times 0.10$	V	
		CSW	0.8			$V_{P-P}$	
	SYMMETRY (DUTY CYCLE)		45		55	%	For CMOS
	RISE AND FALL TIME ( $T_r/T_f$ )				10	nS	For CMOS
	START-UP TIME				2.0	mS	
FREQUENCY DEVIATION		$\pm 5.0$			ppm	See P/N guide for other options	
CONTROL VOLTAGE		0.5		2.5	V		
$V_c$ INPUT IMPEDANCE		100			k $\Omega$		
PHASE NOISE	100Hz		-130		dBc/Hz	@ 12.8MHz	
	1kHz		-145		dBc/Hz		
	10kHz		-154		dBc/Hz		

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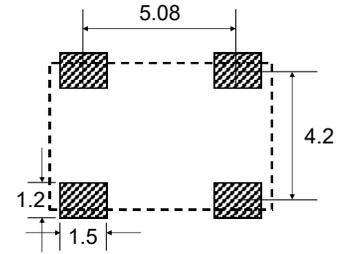
## PACKAGE DIMENSIONS



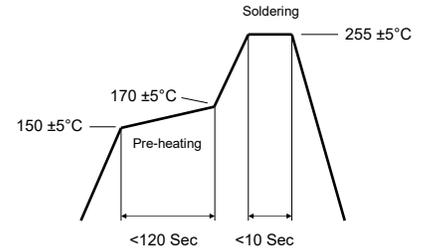
Unit : mm

Pad Connections	
1	V <sub>C</sub> : VCTCXO
	GND/NC: TCXO
2	GND
3	Output
4	V <sub>DD</sub>

## SOLDER PATTERN

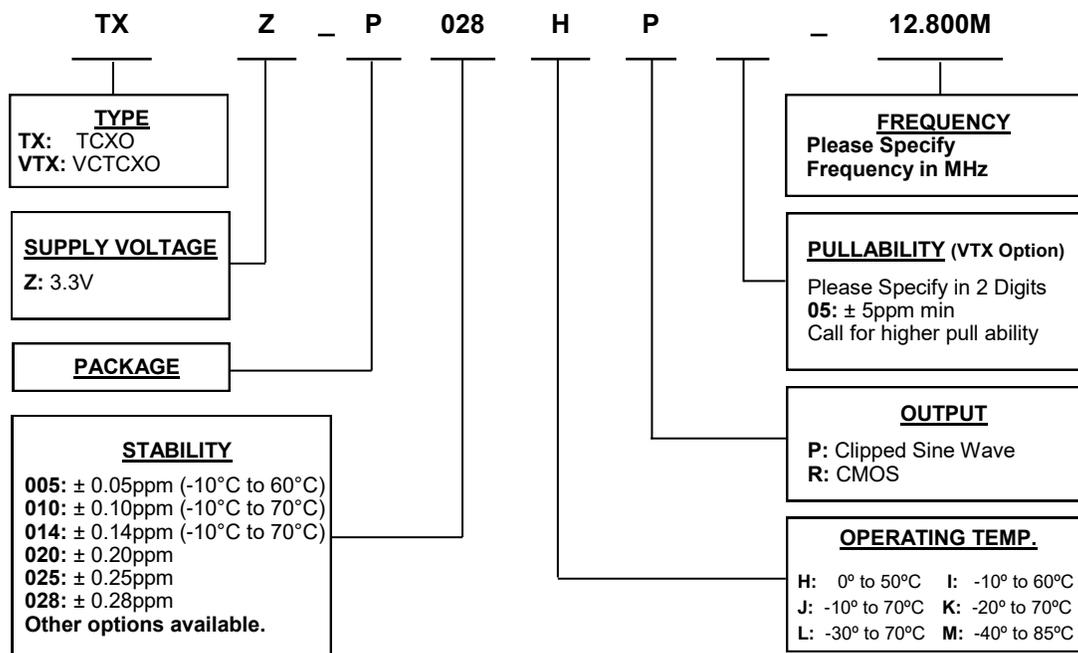


## REFLOW PROFILE



Note: Consult factory for detail

## PART NUMBERING GUIDE



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