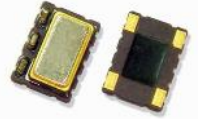


CERAMIC SMD TCXO / VCTCXO (7.0 x 5.0 x 1.9mm)
FEATURES

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

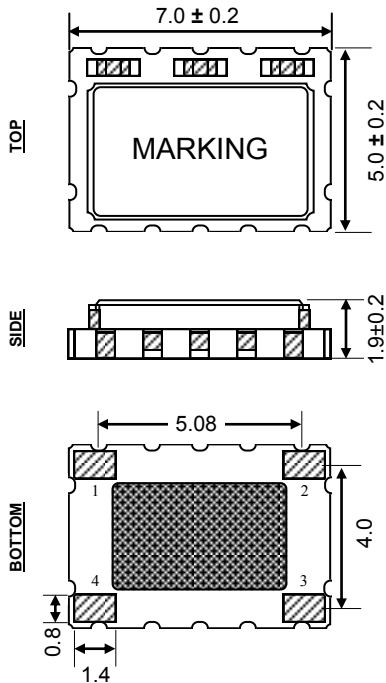
APPLICATION:

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


■ SPECIFICATION

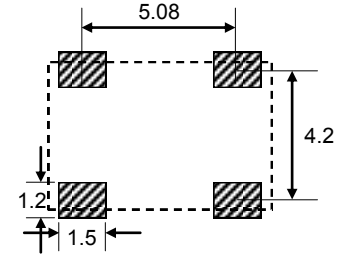
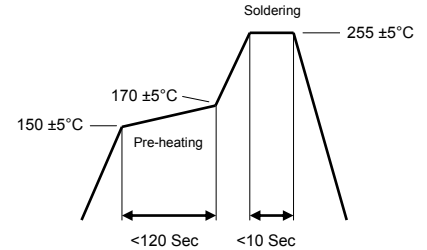
PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE		5		40	MHz		
STANDARD FREQUENCIES		10M, 12.8M, 16M, 16.384M, 19.2M, 19.44M, 20M, 25M, 26M					
FREQUENCY TOLERANCE				± 2.0	ppm		
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	± 0.05		± 0.28	ppm	See P/N guide for other options	
	vs. LOAD $\pm 10\%$			± 0.05	ppm		
	vs. SUPPLY VOLTAGE $\pm 5\%$			± 0.1	ppm		
	vs. AGING			± 1.0	ppm		
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 $\pm 5\%$		3.3		5.0	V		
SUPPLY CURRENT	CMOS			6	mA		
	CSW			3.5	mA		
OUTPUT	LOAD	CMOS	15pF				
		CSW	10k Ω //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		± 5.0			ppm	See P/N guide for other options	
CONTROL VOLTAGE		0.5		2.5	V		
V_c INPUT IMPEDANCE		100			k Ω		
PHASE NOISE	100Hz		-130		dBc/Hz	@ 12.8MHz	
	1kHz		-145		dBc/Hz		
	10kHz		-154		dBc/Hz		

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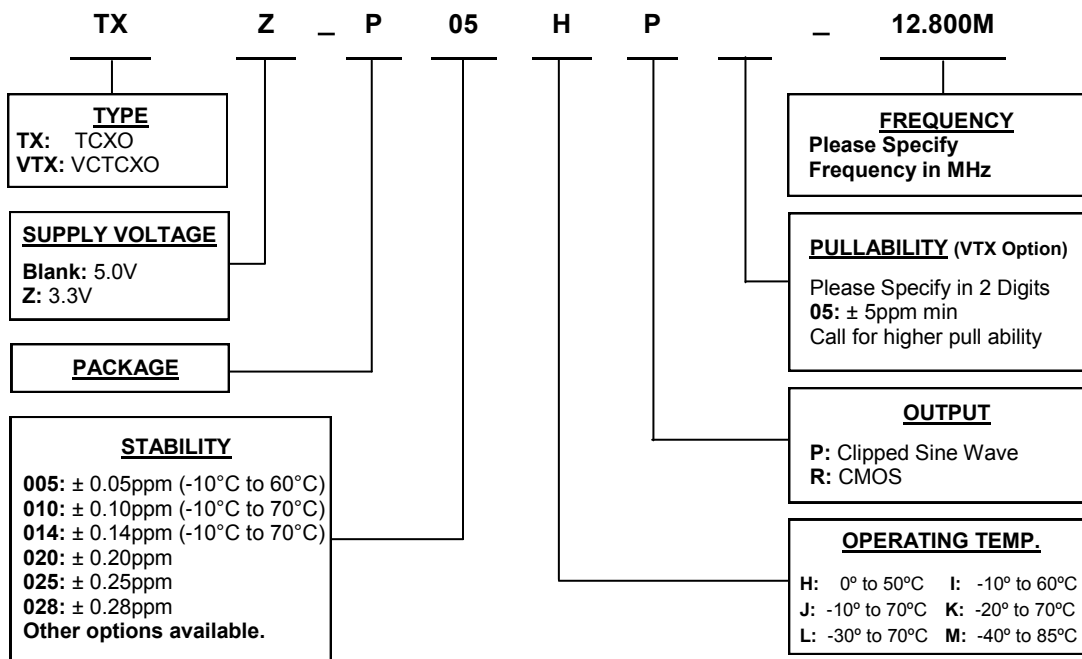
■ PACKAGE DIMENSIONS


Unit : mm

Pad Connections	
1	V _C : VCTCXO GND/NC: TCXO
2	GND
3	Output
4	V _{DD}

■ SOLDER PATTERN

■ REFLOW PROFILE


Note: Consult factory for detail

■ PART NUMBERING GUIDE


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