

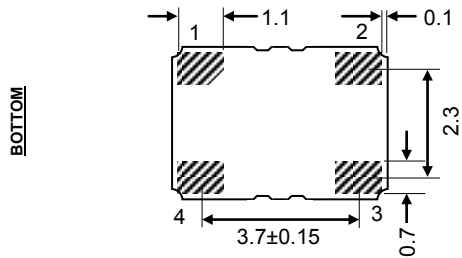
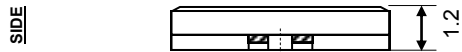
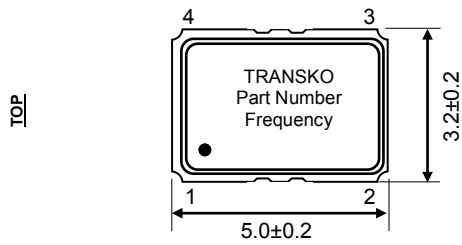
TCXO/VCTCXO ULTRA MINIATURE SMD (5.0 x 3.2 x 1.2mm)
FEATURES:

- HIGH STABILITY UP TO $\pm 0.1\text{ppm}$
- LOW PHASE NOISE
- USED FOR **FEMTOCELL** APPLICATION


■ SPECIFICATION

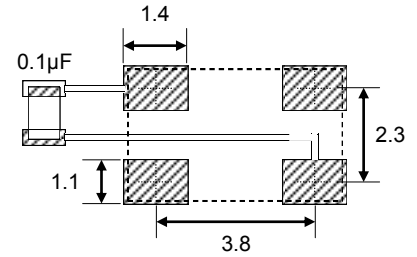
PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE	3.3V	10		40	MHz	CMOS & CSW	
	5.0V	10		26	MHz	CSW only	
STANDARD FREQUENCIES		13M, 14.4M, 16.368M, 16.369M, 16.8M, 19.2M, 19.68M, 20M, 24.5535M, 26M					
FREQUENCY TOLERANCE				± 2.0	ppm		
FREQUENCY STABILITY	vs. TEMPERATURE RANGE		± 0.1	± 1.0	ppm	See P/N guide for other options	
	vs. LOAD $\pm 10\%$			± 0.2	ppm		
	vs. SUPPLY VOLTAGE $\pm 5\%$	CMOS		± 0.4	ppm		
		CSW		± 0.2	ppm		
vs. AGING				± 1.0	ppm/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 $\pm 5\%$		3.3		5.0	V		
SUPPLY CURRENT	CMOS	1MHz $\leq f \leq$ 40MHz		6.0	mA		
	CSW	1MHz $\leq f <$ 15MHz		1.5	mA		
		15MHz $\leq f <$ 26MHz		2.0	mA		
		26MHz $\leq f \leq$ 40MHz		2.5	mA		
OUTPUT	LOAD	CMOS		15pF			
		CSW		10k Ω //10pF			
	LEVEL	CMOS (V_{OH})		$0.9 \times V_{DD}$		V	
		CMOS (V_{OL})			$0.1 \times V_{DD}$	V	
		CSW		0.8		V_{P-P}	
	SYMMETRY (DUTY CYCLE)		45		55	%	For CMOS
	RISE AND FALL TIME (T_r/T_f)				10	nS	
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			-115	dBc/Hz	@ 13MHz	
	1kHz			-135	dBc/Hz		
	10kHz			-148	dBc/Hz		

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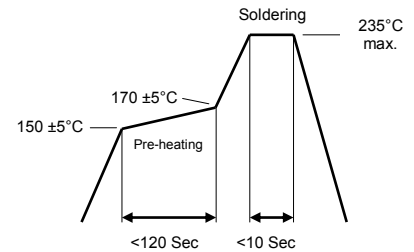
PACKAGE DIMENSIONS


Unit : mm

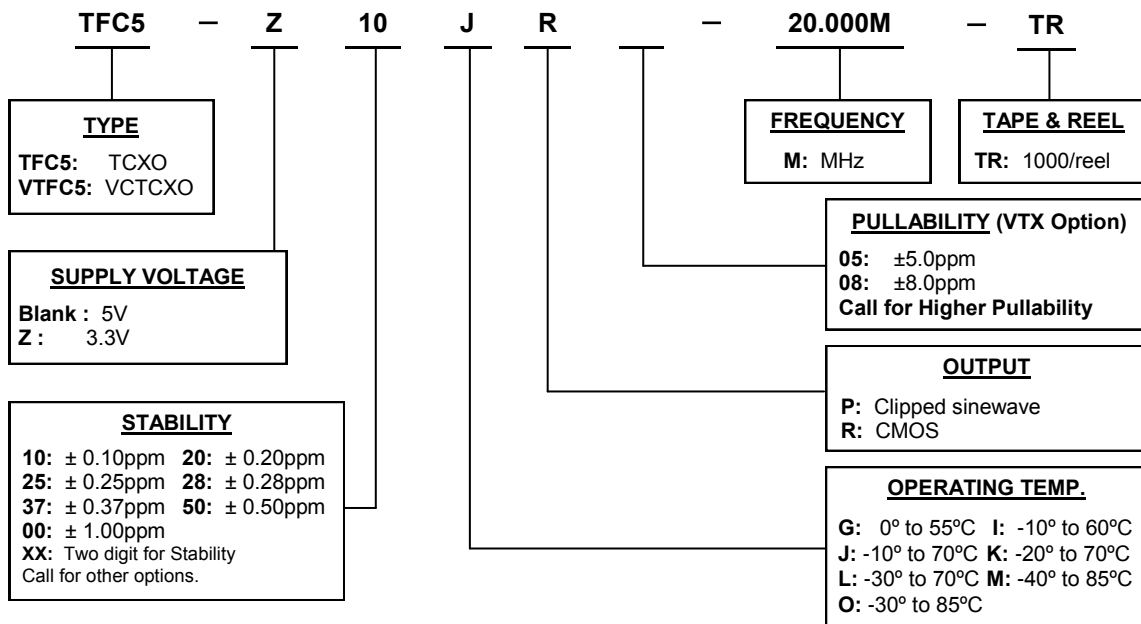
Pad Connections	
1	NC or VC
2	GND
3	Output
4	V _{DD}

SOLDER PATTERN


Unit : mm

REFLOW PROFILE


Note: Consult factory for detail

PART NUMBERING GUIDE


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