

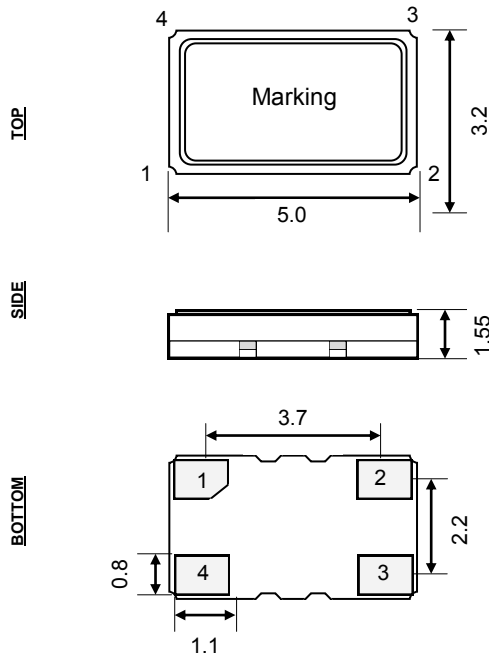
TCXO/VCTCXO ULTRA MINIATURE SMD (5.0 x 3.2 x 1.55mm)
FEATURES:

- HIGH STABILITY ACCURACY UP TO $\pm 0.05\text{ppm}$
- 3.3V or 5.0V AVAILABLE
- SUITABLE FOR **FEMTOCELL** APPLICATION


■ SPECIFICATION

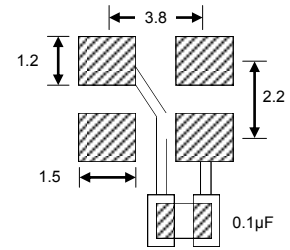
PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE		10		40	MHz		
STANDARD FREQUENCIES		10.000M, 12.800M, 19.200M, 20.000M, 26.000M, 30.720M					
FREQUENCY TOLERANCE				± 2.0	ppm	@ 25°C \pm 2°C	
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	± 0.05		± 0.5	ppm	See P/N guide for other options	
	vs. LOAD \pm 5%			± 0.2	ppm		
	vs. SUPPLY VOLTAGE \pm 5%			± 0.2	ppm		
	vs. AGING			± 1.0	ppm/year		
OPERATING TEMPERATURE RANGE		-40		+85	°C	See P/N guide for other options	
STORAGE TEMPERATURE RANGE		-55		+125	°C		
SUPPLY VOLTAGE $\pm 5\%$		3.3		5	V	See P/N guide for other options	
SUPPLY CURRENT	CMOS			6.0	mA		
	CSW			3.5	mA		
OUTPUT	LOGIC FAMILY	CMOS / Clipped Sine wave					
	LOAD	CMOS	15pF				
		CSW	10k Ω //10pF				
	LEVEL	CMOS (V _{OH})	0.9 x V _{DD}			V	
		CMOS (V _{OL})			0.1 x V _{DD}	V	
		CSW	0.8			V _{P-P}	
	SYMMETRY (DUTY CYCLE)	45		55	%	For CMOS	
	RISE AND FALL TIME (Tr/Tf)			10	nS	For CMOS (10% ~ 90% of waveform)	
	START-UP TIME			2.0	mS		
FREQUENCY DEVIATION		± 5.0		± 10.0	ppm	See P/N guide for other options	
CONTROL VOLTAGE		0.5		2.5	V		
SLOPE		Positive					
INPUT IMPEDANCE		100			k Ω		
PHASE NOISE	100Hz		-125		dBc/Hz	@ 12.8MHZ	
	1kHz		-145		dBc/Hz		
	10kHz		-150		dBc/Hz		

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■ PACKAGE DIMENSIONS


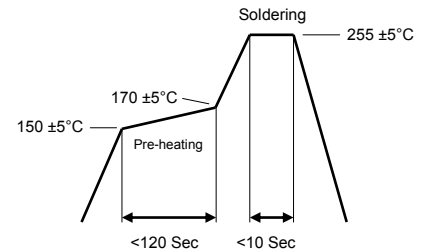
Unit : mm

Pin Configuration	
1	N/C or Vc
2	GND
3	Output
4	V _{DD}

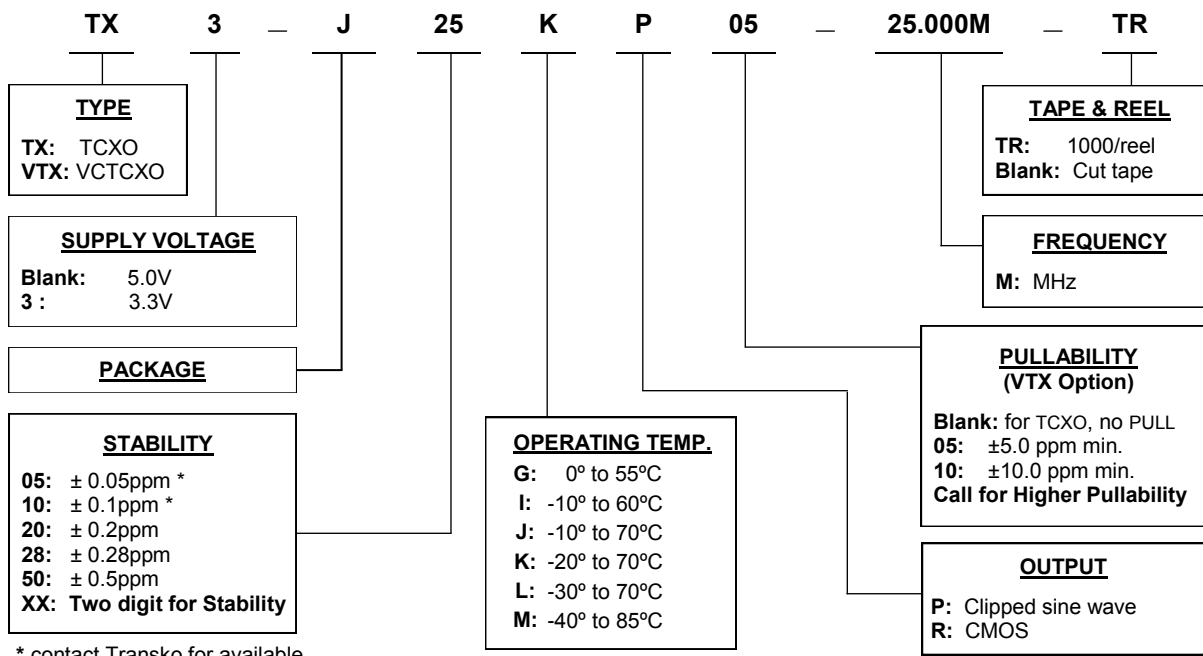
■ SOLDER PATTERN


* Recommended to use bypass capacitor between pin# 2 and pin#4

Unit : mm

■ REFLOW PROFILE


Note: Consult factory for detail

■ PART NUMBERING GUIDE


* contact Transko for available operating temperature.

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