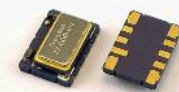


TCXO/VCTCXO MINIATURE CERAMIC SMD (7.0 x 5.0 x 2.0mm)
FEATURES:

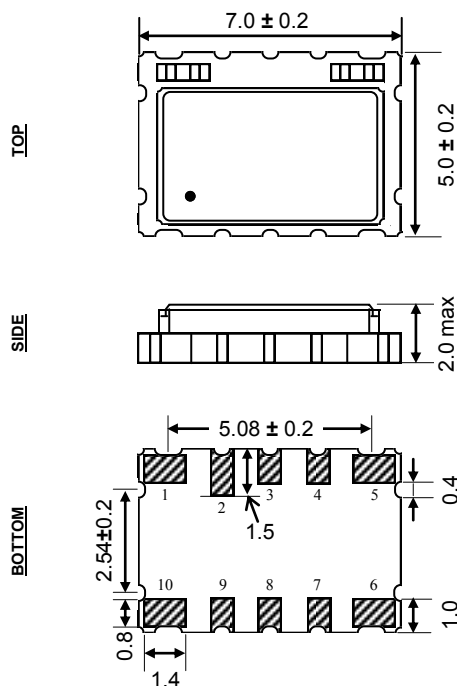
- CMOS / CSW OUTPUT
- TIGHT STABILITY AVAILABLE UP TO ± 0.1 ppm
- SUITABLE FOR REFLOW


■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE		5*		50	MHz	* Contact Transko for low frequency	
STANDARD FREQUENCY		CMOS	5M, 6.4M, 8.192M, 10M, 12.5M, 12.8M, 16M, 16.384M, 19.44M, 25M				
		CSW	8.192M, 10M, 12.5M, 12.8M, 16M, 16.384M, 19.44M, 25M				
FREQUENCY TOLERANCE				±2.0	ppm		
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	±0.1		±2.5	ppm	See P/N guide for other options	
	vs. LOAD ± 10%			±0.2	ppm		
	vs. SUPPLY VOLTAGE ± 5%			±0.2	ppm		
	vs. AGING			±1.0	ppm/year	@ 25°C	
OPERATING TEMPERATURE RANGE		-40		85	°C	See P/N guide for other options	
STORAGE TEMPERATURE RANGE		-55		125	°C		
SUPPLY VOLTAGE ±5%		3.3		5.0	V	See P/N guide for other options	
SUPPLY CURRENT	10MHz ≤ f < 15MHz			1.5	mA		
	15MHz ≤ f < 26MHz			2.0	mA		
	26MHz ≤ f ≤ 50MHz (CMOS)			6	mA		
	26MHz ≤ f ≤ 50MHz (CSW)			3.5	mA		
OUTPUT	LOGIC FAMILY		CMOS / CSW				
	LOAD	CMOS	15pF				
		CSW	10kΩ//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	%	CMOS only
	RISE AND FALL TIME (Tr/Tf)			5	10	nS	CMOS only
	START-UP TIME				2	mS	
FREQUENCY DEVIATION		±5.0			ppm		
CONTROL VOLTAGE		3.3V	0.3		3.0	V	
		5.0V	0.5		4.5	V	
Vc INPUT IMPEDANCE		0.1			MΩ		
PHASE NOISE		100Hz		-120		dBc/Hz	@ 12.8MHz
		1kHz		-140		dBc/Hz	
		10kHz		-148		dBc/Hz	

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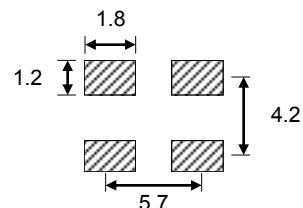
■ PACKAGE DIMENSIONS



Unit : mm

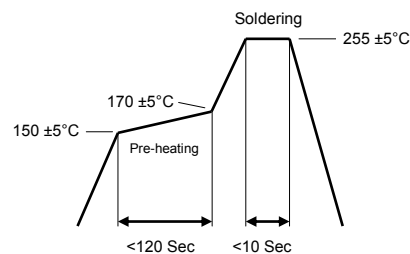
Pad Connections	
1	V _C :VCTCXO
	GND:TCXO
2	N.C.
3	N.C.
4	N.C.
5	GND
6	Output
7	N.C.
8	N.C.
9	En/Dis
10	V _{DD}

■ SOLDER PATTERN



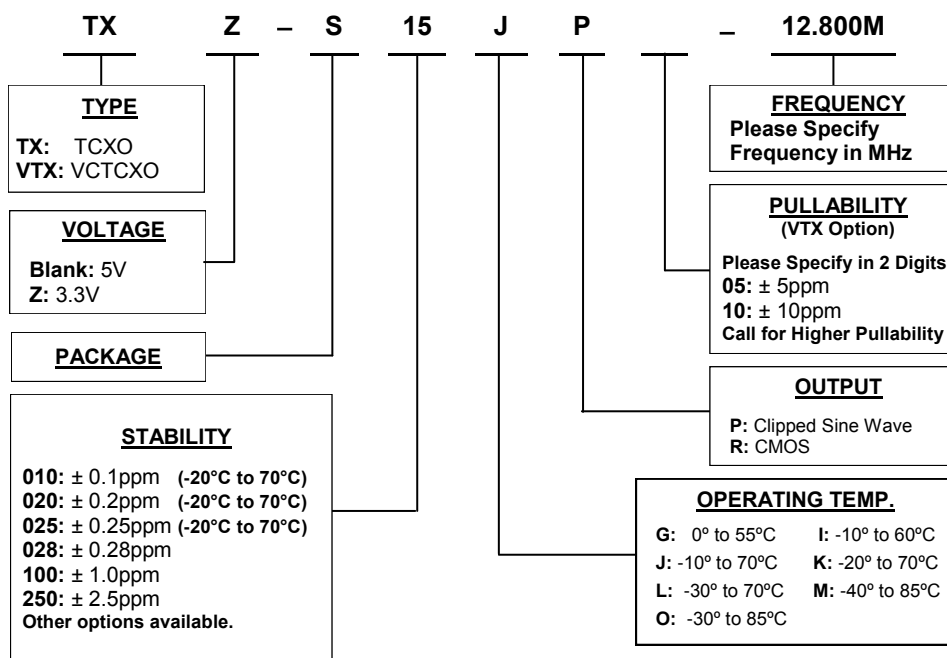
Unit : mm

■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE



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