

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

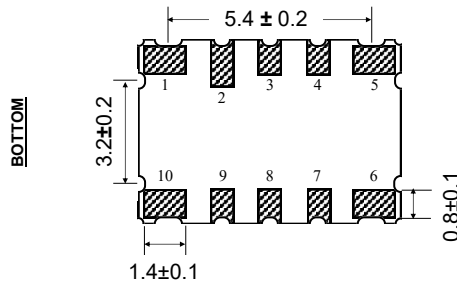
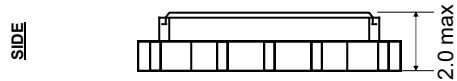
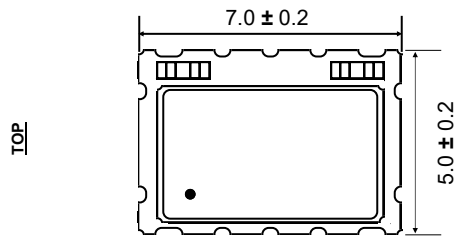


■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE		5*		50	MHz	* Contact Transko for low frequency	
STANDARD FREQUENCIES		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 $\pm 10\%$			± 0.2	ppm		
	vs. SUPPLY VOLTAGE $\pm 5\%$			± 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		3.135	3.3	3.465	V		
SUPPLY CURRENT	5MHz $\leq f \leq$ 50MHz (CMOS)			6	mA		
	10MHz $\leq f <$ 15MHz (CSW)			1.5	mA		
	15MHz $\leq f <$ 26MHz (CSW)			2.0	mA		
	26MHz $\leq f \leq$ 50MHz (CSW)			3.5	mA		
LOGIC FAMILY		CMOS / CSW					
LOAD	CMOS	15pF					
	CSW	10k Ω //10pF					
OUTPUT 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		0.3		3.0	V		
V _c INPUT IMPEDANCE		0.1			M Ω		
PHASE NOISE	100Hz		-120		dBc/Hz	@ 12.8MHz	
	1kHz		-140		dBc/Hz		
	10kHz		-148		dBc/Hz		

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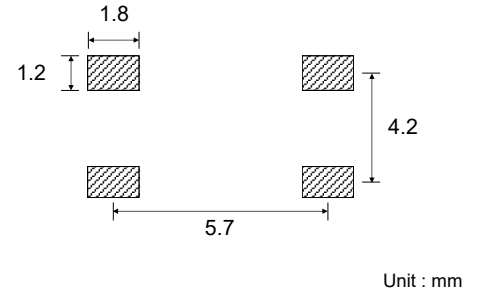
PACKAGE DIMENSIONS



Unit : mm

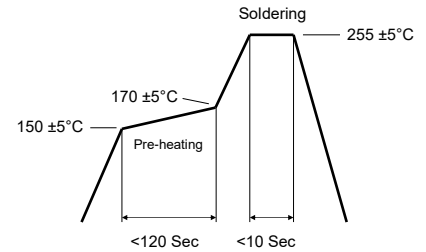
Pad Connections	
1	V _C :VCTCXO GND:TCXO
2	N.C.
3	N.C.
4	N.C.
5	GND
6	Output
7	N.C.
8	N.C.
9	En/Dis
10	V _{DD}

SOLDER PATTERN



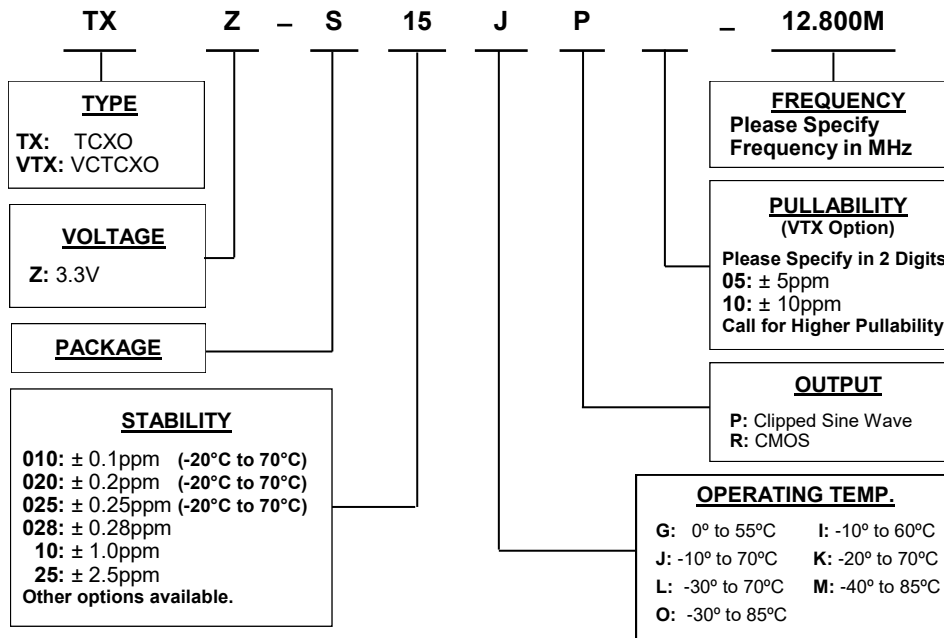
Unit : mm

REFLOW PROFILE



Note: Consult factory for detail

PART NUMBERING GUIDE



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