

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

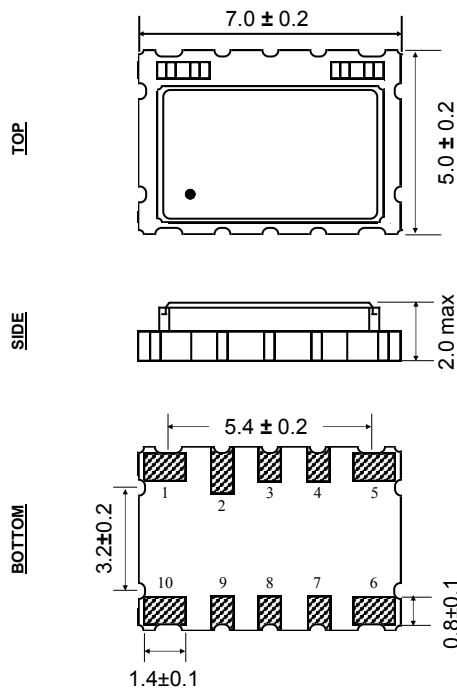


■ SPECIFICATION

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 $\pm 5\%$		3.3		5.0	V	See P/N guide for other options
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	3.3V		0.3	3.0	V	
	5.0V		0.5	4.5	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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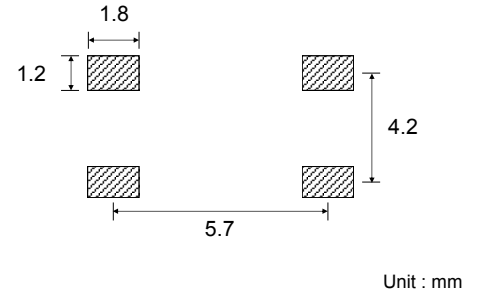
PACKAGE DIMENSIONS



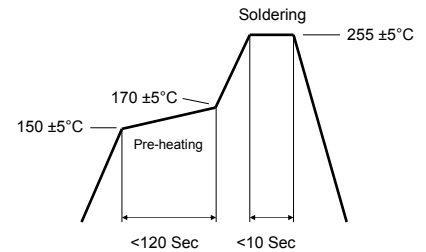
Unit : mm

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

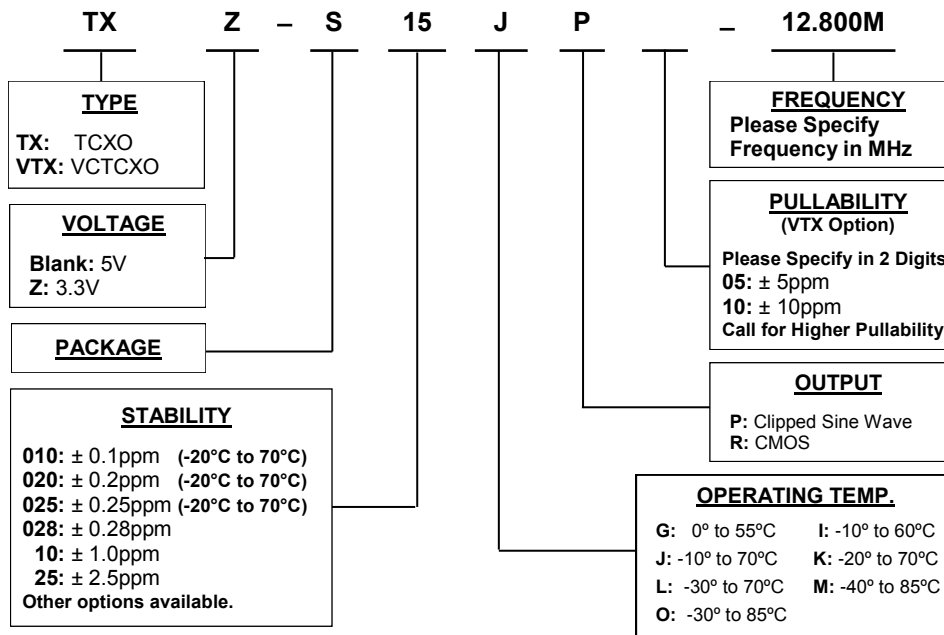


REFLOW PROFILE



Note: Consult factory for detail

PART NUMBERING GUIDE



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