

## ULTRA MINIATURE CERAMIC SMD VCXO (5.0 x 3.2 x 1.3mm)

### FEATURES:

- ULTRA MINIATURE VCXO WITH HCMOS OUTPUT
- WIDE FREQUENCY RANGE UPTO 200.0MHz
- ENABLE/DISABLE ON PIN #2 OR PIN #5

### APPLICATIONS:

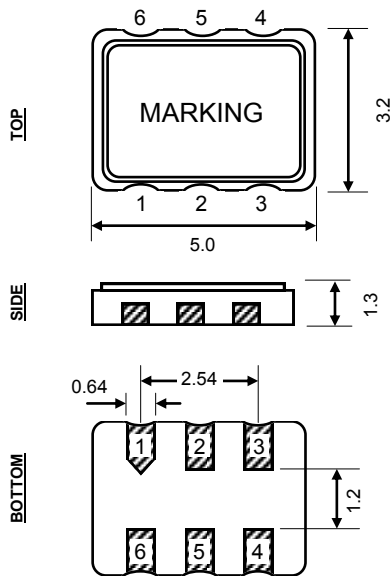
- DVD, STB, Digital TV
- PND, Media player
- Optical transmission device etc..



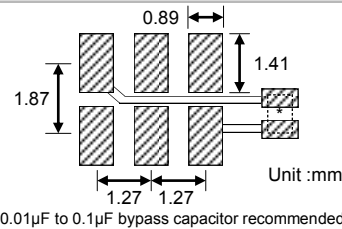
### ■ SPECIFICATION

PARAMETER	MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE	1		80	MHz	Contact factory for higher frequency	
FREQUENCY STABILITY	±10*		±50	ppm	*Available in selected operation temp.	
OPERATING TEMPERATURE RANGE	-40		85	°C	See P/N guide for other options	
STORAGE TEMPERATURE RANGE	-55		125	°C		
SUPPLY VOLTAGE ±10%	2.5		5.0	V	See P/N guide for other options	
SUPPLY CURRENT			15	mA		
OUTPUT	LOGIC FAMILY	HCMOS				
	LOAD	15pF				
	LEVEL LOGIC '1' (V <sub>OH</sub> )	0.9 x V <sub>DD</sub>			V	
	LEVEL LOGIC '0' (V <sub>OL</sub> )			0.1 x V <sub>DD</sub>	V	
	SYMMETRY (DUTY CYCLE)	40	50	60	%	See P/N guide for other options
	RISE AND FALL TIME (Tr/Tf)			5	nS	
	START-UP TIME			5	mS	
STAND BY VOLTAGE	ENABLE (V <sub>IH</sub> )	0.7 x V <sub>DD</sub>			V <sub>DD</sub>	
	DISABLE (V <sub>IL</sub> )			0.3 x V <sub>DD</sub>	V <sub>DD</sub>	
ENABLE / DISABLE DELAY TIME			100	nS		
FREQUENCY DEVIATION	±50			ppm	See P/N guide for other options	
CONTROL VOLTAGE	0	1/2 V <sub>DD</sub>	V <sub>DD</sub>	V		
SLOPE		Positive				
LINEARITY			±10	%		
MODULATION BANDWIDTH @ -3dB	10			kHz		
INPUT IMPEDANCE	100			kΩ		
AGING @ 25°C + 3°C			±3	ppm	@ for 1 <sup>st</sup> year	
PERIOD JITTER (Pk-Pk)			25	pS		
PHASE JITTER RMS	FUNDAMENTAL	0.5	1.0	pS	@ 12kHz ~ 20MHz offset	
	PLL		4.0	pS		

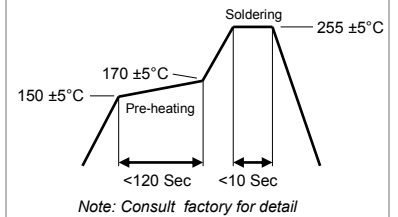
### ■ PACKAGE DIMENSIONS



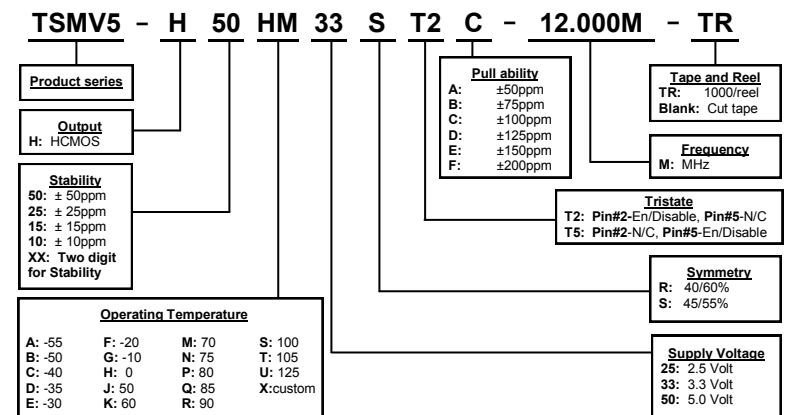
### ■ SOLDER PATTERN



### ■ REFLOW PROFILE



### ■ PART NUMBERING GUIDE



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