

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

FEATURES:

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

APPLICATIONS:

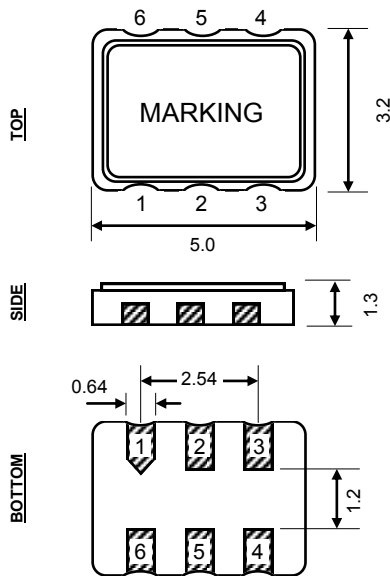
- DVD, STB, Digital TV
- PND, Media player
- Optical transmission device etc..



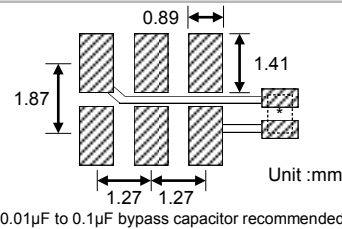
■ SPECIFICATION

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 _{OH})	0.9 x V _{DD}		V	
	LEVEL LOGIC '0' (V _{OL})		0.1 x V _{DD}	V	
	SYMMETRY (DUTY CYCLE)	40	50	60	%
	RISE AND FALL TIME (Tr/Tf)		5	nS	See P/N guide for other options
STAND BY VOLTAGE	START-UP TIME		5	mS	
	ENABLE (V _{IH})	0.7 x V _{DD}		V _{DD}	
	DISABLE (V _{IL})		0.3 x V _{DD}	V _{DD}	
ENABLE / DISABLE DELAY TIME			100	nS	
FREQUENCY DEVIATION	±50			ppm	See P/N guide for other options
CONTROL VOLTAGE	0	1/2 V _{DD}	V _{DD}	V	
SLOPE		Positive			
LINEARITY			±10	%	
MODULATION BANDWIDTH @ -3dB	10			kHz	
INPUT IMPEDANCE	100			kΩ	
AGING @ 25°C + 3°C			±3	ppm	@ for 1 st year
PERIOD JITTER (Pk-Pk)			25	pS	
PHASE JITTER RMS	FUNDAMENTAL		0.5	pS	@ 12kHz ~ 20MHz offset
	PLL		1.0	pS	
			4.0	pS	

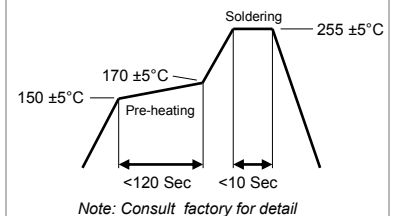
■ PACKAGE DIMENSIONS



■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE

