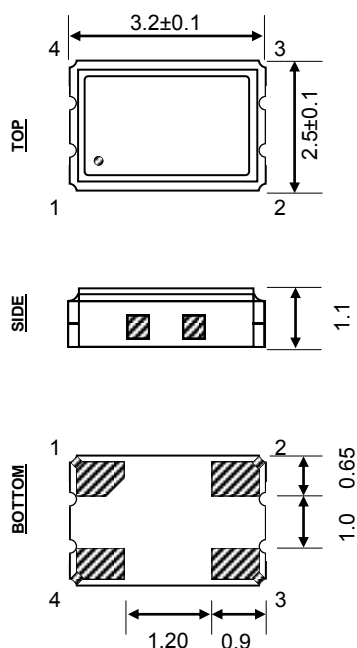
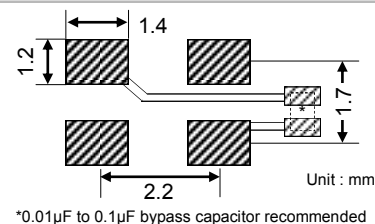
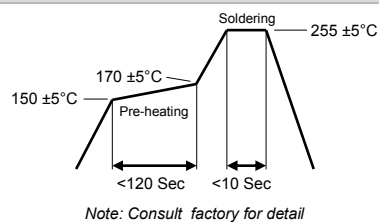


CMOS MINIATURE SMD VCXO (3.2 x 2.5 x 1.2mm)
FEATURES:

- SMALLEST PACKAGE VCXO
- WIDE FREQUENCY RANGE
- EXCELLENT HEAT RESISTANCE / HIGH STABILITY


■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE
FREQUENCY RANGE		1.25		70	MHz	
FREQUENCY STABILITY		±10*		±100	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%		1.8		3.3	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	%	See P/N guide for other options
	RISE AND FALL TIME (Tr/Tf)			5	nS	
	START-UP TIME			5	mS	
FREQUENCY DEVIATION		±50			ppm	See P/N guide for other options
CONTROL VOLTAGE		0	1/2 V _{DD}	V _{DD}	V	
SLOPE		Positive				
LINEARITY				±15	%	
MODULATION BANDWIDTH @-3dB		10			kHz	
INPUT IMPEDANCE		100			kΩ	
AGING @ 25°C + 3°C				±3	ppm	@ for 1 st year
PHASE JITTER RMS				1.0	pS	@ 12kHz ~ 20MHz offset
PHASE NOISE				-120	dBc/Hz	@1kHz offset

■ PACKAGE DIMENSIONS

■ SOLDER PATTERN

■ REFLOW PROFILE

■ PART NUMBERING GUIDE

TSMV3 - H 50 HM 33 S C - 12.000M - TR									
Product series		Output		Stability		Pull ability		Tape and Reel	
H: HCMOS		00: ± 100ppm 50: ± 50ppm 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Stability		A: ±50ppm B: ±75ppm C: ±100ppm D: ±125ppm E: ±150ppm F: ±200ppm		TR: 1000/reel Blank: Cut tape		Frequency	
								M: MHz	
								Symmetry	
								R: 40/60% S: 45/55%	
								Supply Voltage	
								18: 1.8 Volt 25: 2.5 Volt 33: 3.3 Volt	

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