

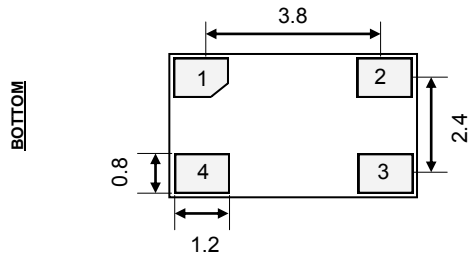
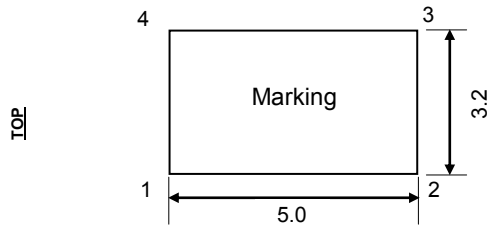
**TCXO/VCTCXO ULTRA MINIATURE SMD (5.0 x 3.2 x 1.6mm)**
**FEATURES:**

- EPOXY RESIN COVER
- GLASS EPOXY BASE
- SUITABLE FOR REFLOW


**■ SPECIFICATION**

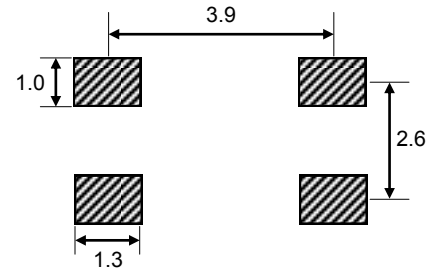
PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE		13		52	MHz		
STANDARD FREQUENCIES		16.368M, 16.369M, 19.200M, 26.000M, 27.456M, 33.600M, 38.400M, 52.000M					
FREQUENCY TOLERANCE				±1.5	ppm	@ 25°C ± 2°C	
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	±0.5		±2.0	ppm	See P/N guide for other options	
	vs. LOAD ± 5%			±0.2	ppm		
	vs. SUPPLY VOLTAGE ± 5%			±0.2	ppm		
	vs. AGING			±1.0	ppm/year	@ 25°C ± 3°C	
OPERATING TEMPERATURE RANGE		-40*		+85	°C	See P/N guide for other options * Selected Frequency	
STORAGE TEMPERATURE RANGE		-55		+125	°C		
SUPPLY VOLTAGE ±5%		1.8		3.3	V	See P/N guide for other options	
SUPPLY CURRENT	CMOS	13 ~ 30M		4.0	mA		
		30 ~ 40M		5.0	mA		
		40 ~ 52M		6.0	mA		
	CSW			2.0	mA		
OUTPUT	LOGIC FAMILY		CMOS / Clipped Sine wave				
	LOAD	CMOS	15pF				
		CSW	10kΩ//10pF				
	LEVEL	CMOS (V <sub>OH</sub> )	0.9 x V <sub>DD</sub>			V	
		CMOS (V <sub>OL</sub> )			0.1 x V <sub>DD</sub>	V	
		CSW	0.8			V <sub>P-P</sub>	
	SYMMETRY (DUTY CYCLE)		45		55	%	For CMOS
	RISE AND FALL TIME (Tr/Tf)				10	nS	For CMOS (10% ~ 90% of waveform)
START-UP TIME				10	mS		
FREQUENCY DEVIATION	1.8V	±8.0		±13.0	ppm	See P/N guide for other options	
	2.5V, 3.3V	±9.0		±15.0	ppm		
CONTROL VOLTAGE	1.8V	0.1		1.7	V		
	2.5V	0.25		2.25	V		
	3.3V	0.65		2.65	V		
SLOPE		Positive					
PHASE NOISE	1kHz		-133		dBc/Hz	@ 26MHZ	

*Transko Electronics, Inc reserves the right to make changes to the product (s), service (s), and specification (s) described herein without notice. See "Terms of Sale" for details on our website.*

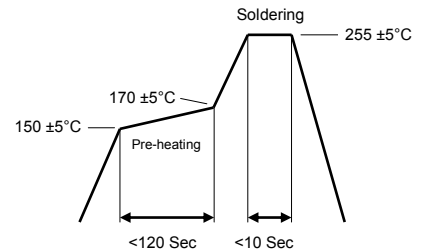
**■ PACKAGE DIMENSIONS**


Unit : mm

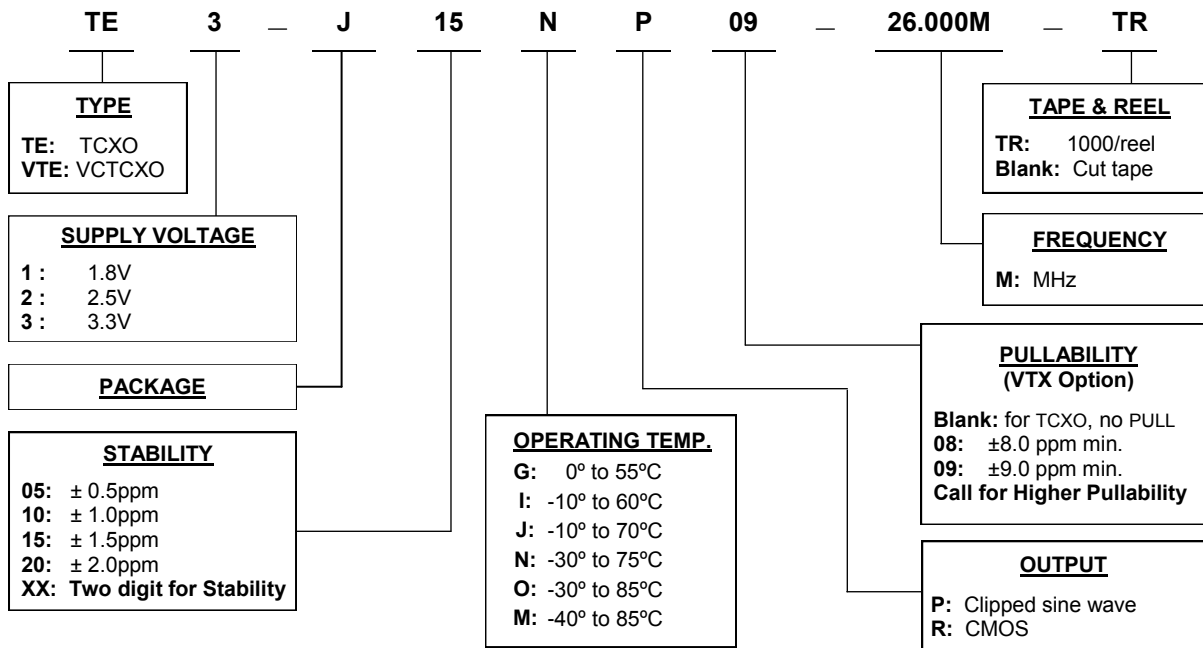
Pin Configuration	
1	N/C or Vc
2	GND
3	Output
4	V <sub>DD</sub>

**■ SOLDER PATTERN**


Unit : mm

**■ REFLOW PROFILE**


Note: Consult factory for detail

**■ PART NUMBERING GUIDE**


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