

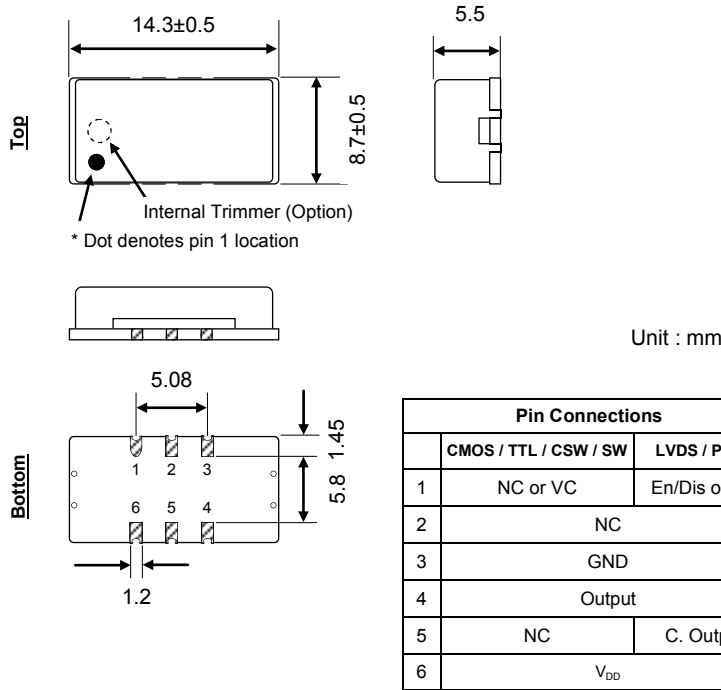
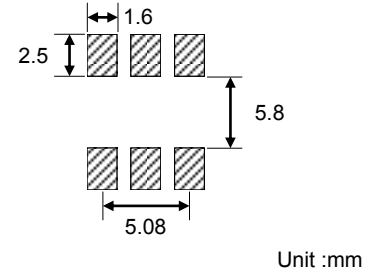
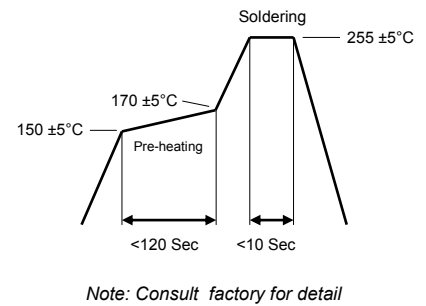
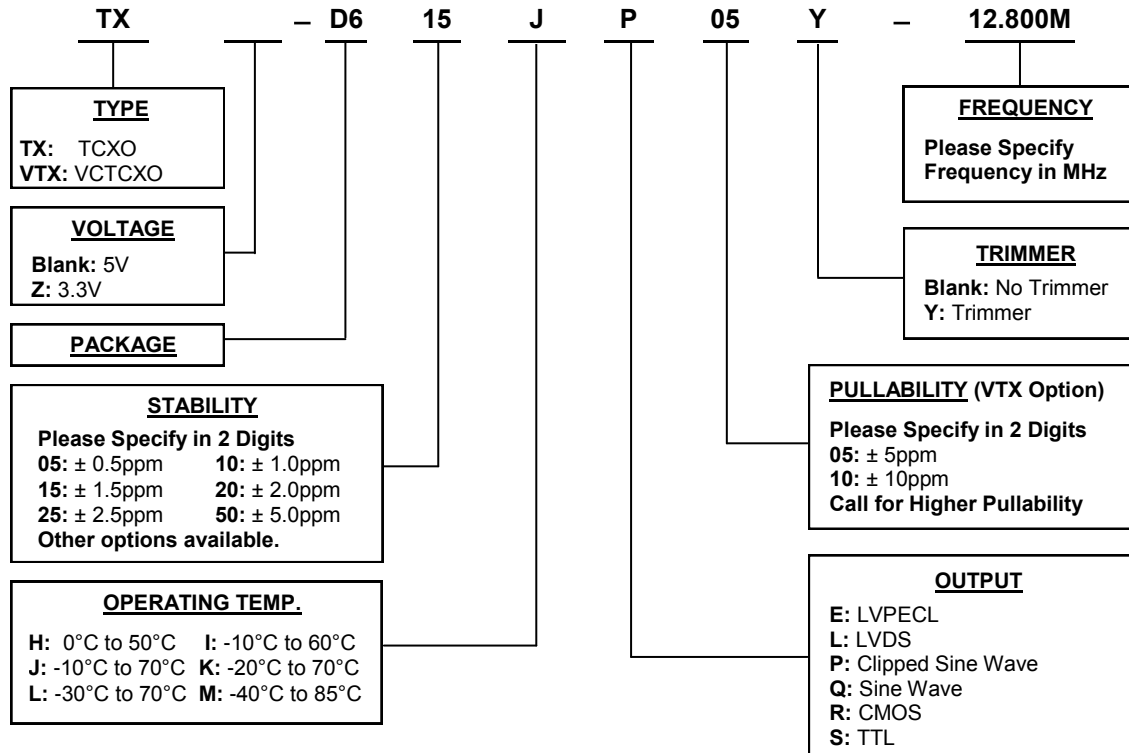
**TCXO/VCTCXO FR4 BASE SMD (14.3 x 8.7 mm)**
**FEATURES:**

- WIDE FREQUENCY RANGES
- TIGHT STABILITY AVAILABLE
- STANDARD PACKAGE


**■ SPECIFICATION**

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE	CMOS / TTL	1K		800M	Hz		
	LVDS / PECL	0.75		800	MHz		
	CSW / SW	10		50	MHz		
FREQ. STABILITY	vs. TEMPERATURE	±0.5		±5.0	ppm	See P/N guide for other options	
	vs. LOAD ± 10%	CMOS / TTL		±0.2	ppm		
		LVDS / PECL		±0.2	ppm		
		CSW / SW		±0.2	ppm		
	vs. SUPPLY VOLTAGE ± 5%	CMOS / TTL		±0.3	ppm		
LVDS / PECL			±0.3	ppm			
CSW / SW			±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 ±5%		3.3		5.0	V	See P/N guide for other options	
SUPPLY CURRENT	CMOS / TTL			50	mA		
	LVDS / PECL			100	mA		
	CSW			10	mA		
	SW			30	mA		
OUTPUT	LOGIC FAMILY	CMOS / TTL / LVDS / LVPECL / CSW / SW					
	LOAD	CMOS / TTL	15pF / 10TTL				
		CSW / SW	10kΩ/10pF / 50Ω				
	LEVEL	CMOS (V <sub>OH</sub> )	0.9 x V <sub>DD</sub>		0.1 x V <sub>DD</sub>	V	
		CMOS (V <sub>OL</sub> )				V	
		TTL (V <sub>OH</sub> )	2.4			V	
		TTL (V <sub>OL</sub> )			0.4	V	
		LVDS (V <sub>OH</sub> )		1.43		V	
		LVDS (V <sub>OL</sub> )		1.10		V	
		PECL (V <sub>OH</sub> )	V <sub>DD</sub> -1.025			V	
		PECL (V <sub>OL</sub> )			V <sub>DD</sub> -1.62	V	
		CSW (3.3V)	0.8			V <sub>P-P</sub>	
		CSW (5.0V)	1.0			V <sub>P-P</sub>	
	SW (3.3V)		0		dBm		
	SW (5.0V)		10		dBm		
DIFFERENTIAL OUTPUT			330		mV	LVDS only	
OFFSET VOLTAGE			1.2		V	LVDS only	
SYMMETRY (DUTY CYCLE)	CMOS / TTL	40		60	%		
	LVDS / PECL	45		55	%		
RISE AND FALL TIME (Tr/Tf)	CMOS / TTL			10	nS		
	LVDS / PECL			1.0	nS		
FREQUENCY DEVIATION		±5		±10	ppm		
CONTROL VOLTAGE	3.3V	0.15		3.15	V		
	5.0V	0.5		4.5	V		
FREQUENCY ADJUSTMENT (OPTION)		±3.0			ppm	By internal trimmer	
PHASE NOISE	10Hz		-80		dBc/Hz	@ 20.0MHz offset	
	100Hz		-120		dBc/Hz		
	1kHz		-135		dBc/Hz		
	10kHz		-140		dBc/Hz		
	100kHz		-145		dBc/Hz		

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**

**■ SOLDER PATTERN**

**■ REFLOW PROFILE**

**■ PART NUMBERING GUIDE**


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.