

**TCXO/VCTCXO 6PAD SMD PACKAGE (11.4 x 11.6 x 4.0mm)**
**FEATURES:**

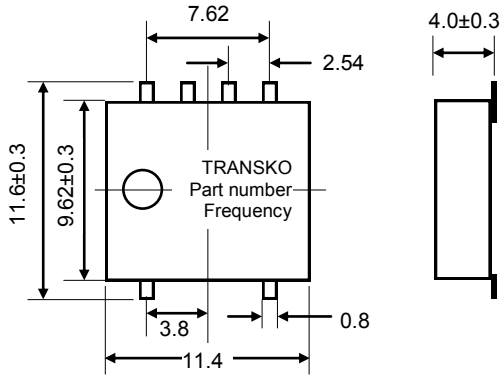
- TIGHT STABILITY AVAILABLE
- STANDARD PACKAGE


**■ SPECIFICATION**

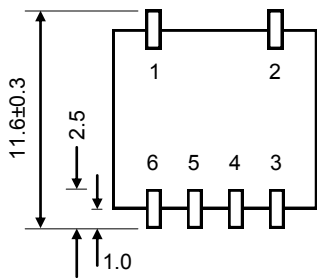
PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE	CMOS / TTL	1.25		50	MHz		
	CSW / SW	10		50	MHz		
FREQUENCY STABILITY	vs. TEMPERATURE	±0.5		±5.0	ppm	See P/N guide for other options	
	vs. LOAD ± 10%	CMOS / TTL		±0.2	ppm		
		CSW / SW		±0.2	ppm		
	vs. SUPPLY VOLTAGE ± 5%	CMOS / TTL		±0.3	ppm		
		CSW / SW		±0.2	ppm		
vs. AGING			±1.0	ppm/yr	@ 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			40	mA		
	CSW			30	mA		
	SW			30	mA		
OUTPUT	LOGIC FAMILY	CMOS / TTL / 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>			V	
		CMOS (V <sub>OL</sub> )			0.1 x V <sub>DD</sub>	V	
		TTL (V <sub>OH</sub> )	2.4			V	
		TTL (V <sub>OL</sub> )			0.4	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		
SYMMETRY (DUTY CYCLE)		40		60	%	CMOS/TTL only	
RISE AND FALL TIME (Tr/Tf)				10	nS	CMOS/TTL only	
FREQUENCY DEVIATION		±5		±20	ppm		
CONTROL VOLTAGE	3.3V	0.15		3.15	V		
	5.0V	0.5		4.5	V		
FREQUENCY ADJUSTMENT		±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		

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## ■ PACKAGE DIMENSIONS

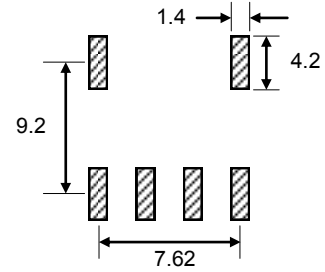


Unit : mm



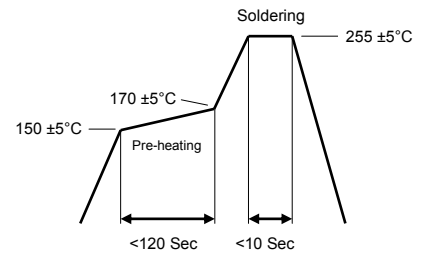
Pin Connections	
1	Case Ground
2	Case Ground
3	Output
4	GND
5	N.C. or V <sub>C</sub>
6	V <sub>DD</sub>

## ■ SOLDER PATTERN



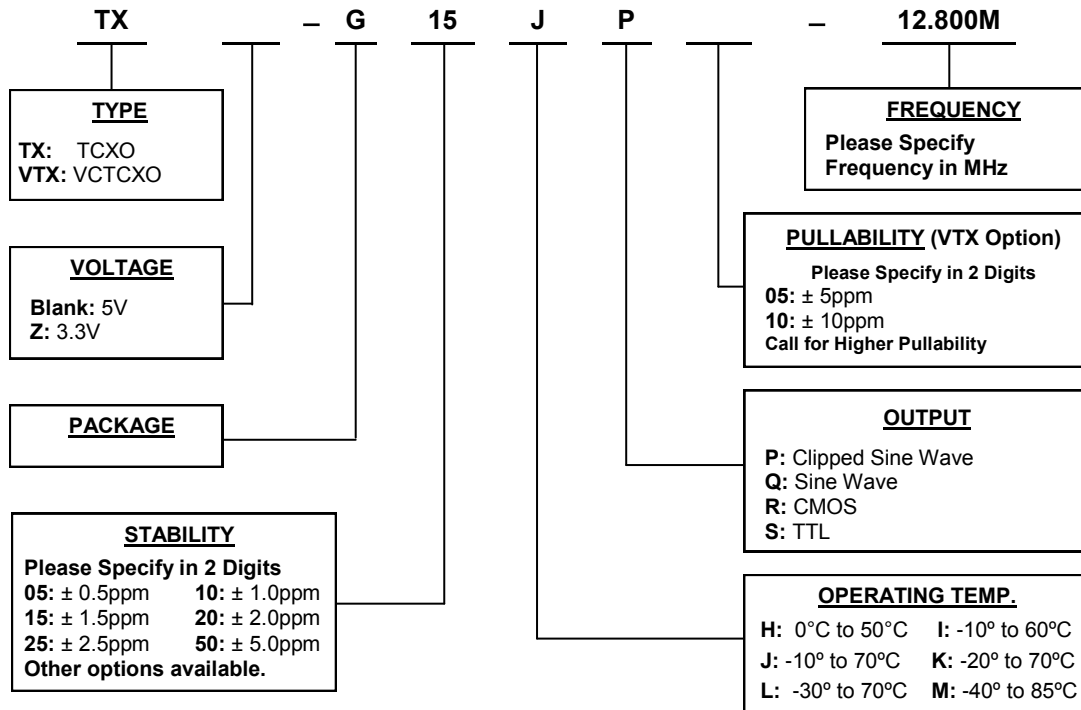
Unit : mm

## ■ REFLOW PROFILE



Note: Consult factory for detail

## ■ PART NUMBERING GUIDE



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