

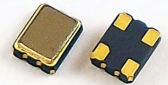
ULTRA MINIATURE SMD TCXO (3.2 x 2.5 x 1.0mm)

FEATURES:

- CMOS OUTPUT
- ENABLE / DISABLE OUTPUT CONTROL
- 1.8V TO 3.3V SUPPLY VOLTAGE

APPLICATIONS:

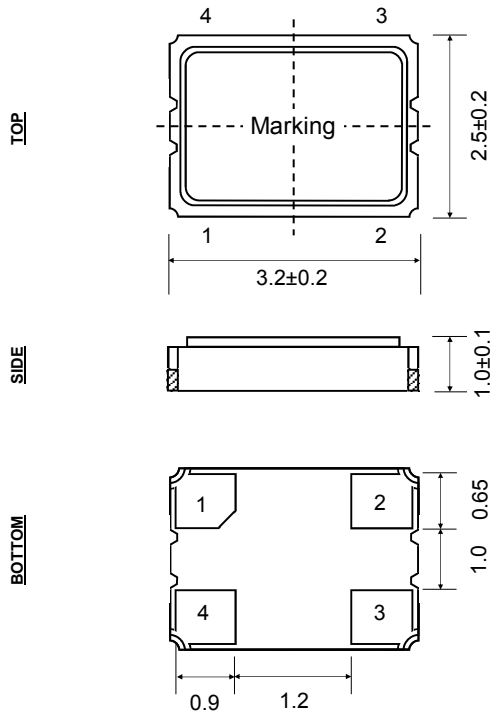
- WiMAX, Wi-Fi, Wi-LAN, Wireless Communications
- Base Stations, Point to point radios
- Broadband Access, Test Equipment, Networking


■ SPECIFICATION

PARAMETER		MIN.	TYP.	MAX.	UNIT	NOTE	
FREQUENCY RANGE		4		54	MHz		
STANDARD FREQUENCIES		10.000MHz, 12.000MHz, 16.000MHz, 20.000MHz, 20.480MHz, 24.000MHz, 32.000MHz, 40.000MHz, 48.000MHz					
FREQUENCY TOLERANCE				±1.0	ppm	@ 25°C ± 2°C	
FREQUENCY STABILITY	vs. TEMPERATURE RANGE			±5.0	ppm	See P/N guide for other options	
	vs. LOAD ± 10%			±0.2	ppm		
	vs. SUPPLY VOLTAGE ± 5%			±0.2	ppm		
	vs. AGING			±1.0	ppm/year		
OPERATING TEMPERATURE RANGE		-30		75	°C	Contact Transko for extended temp.	
STORAGE TEMPERATURE RANGE		-40		125	°C		
SUPPLY VOLTAGE ±5%		1.8		3.3	V	See P/N guide for other options	
SUPPLY CURRENT		+1.8V	+2.5V	+2.8V	+3.3V		
	4MHz ≤ f ≤ 10MHz	3.1	3.1	3.4	4.0		
	10MHz < f ≤ 20MHz	3.7	3.7	4.1	4.8		
	20MHz < f ≤ 30MHz	4.2	4.2	4.7	5.5		
	30MHz < f ≤ 40MHz	4.6	4.6	5.2	6.0		
	40MHz < f ≤ 54MHz	5.5	5.5	6.0	7.0		
OUTPUT	LOGIC FAMILY		CMOS				
	LOAD		15pF				
	LEVEL	V _{OH}	0.9 x V _{DD}			V	
		V _{OL}			0.1 x V _{DD}	V	
	SYMMETRY (DUTY CYCLE)		45		55	%	
	RISE AND FALL TIME (Tr/Tf)				5	nS	
	START-UP TIME				10	mS	
STAND-BY VOLTAGE	ENABLE (V _{IH})	0.8 x V _{DD}			V	Or OPEN	
	DISABLE (V _{IL})			0.2 x V _{DD}	V		
ENABLE DELAY TIME				10	mS		
DISABLE DELAY TIME				200	nS		
PHASE NOISE	10kHz		-145		dBc/Hz	@ 26.000MHz	

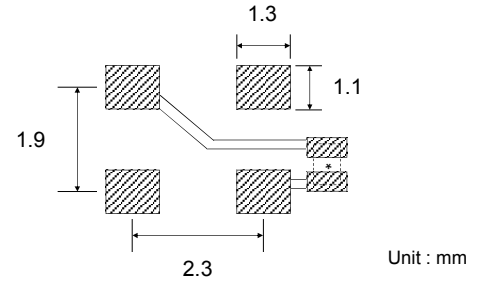
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■ PACKAGE DIMENSIONS



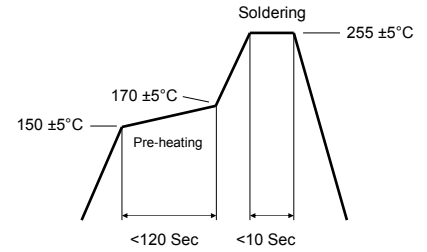
Pin Configuration	
1	En/Dis
2	GND
3	Output
4	V _{DD}

■ SOLDER PATTERN



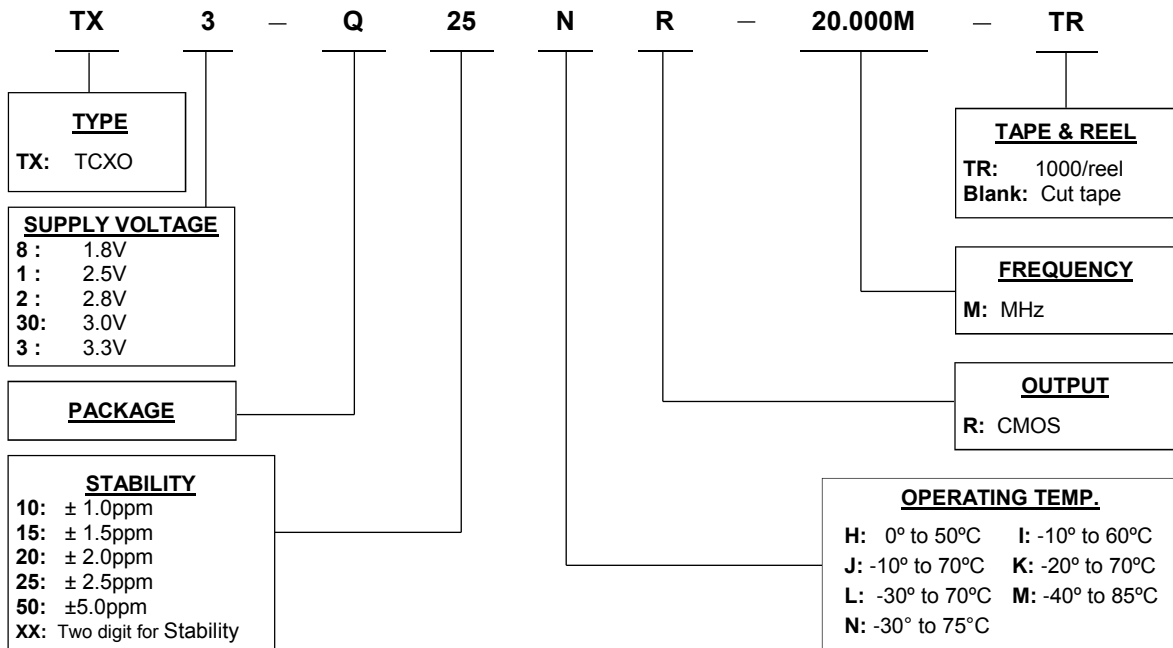
*0.01μF to 0.1μF bypass capacitor recommended

■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE



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