

TCXO & VCTCXO SMD2520 (Clipped Sine Wave)



4 Pad Version 2.5×2.0 mm

- $\pm 0.5 \sim \pm 2.5$ ppm stability
- Clipped sine wave
- Low power consumption
- Reflow soldering temperature: 260°C max



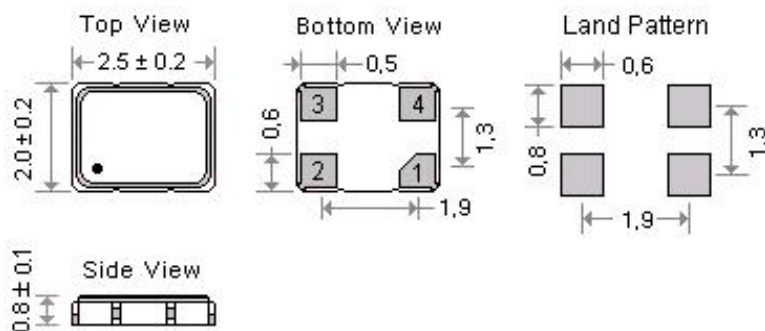
RoHS compliant

★ PARAMETERS

PARAMETERS	SPECIFICATION			
Frequency Range	10.0~52.0MHz			
Frequency Tolerance	±1.0ppm、±2.0ppm at +25± 2℃			
Frequency Stability	Vs Temperature (ref. to +25℃)		±0.5~ ±2.5ppm	
	Vs Supply voltage change (±5%)		±0.2ppm	
	Vs Load change (±10%)		±0.2ppm	
	Vs Aging (1 st Year , 25±2℃)		±1.0ppm	
Supply Voltage	1.8V、2.5V、2.8V、3.0V、3.3V			
Output Waveform	Clipped Sine Wave			
Output Load	10KΩ//10pF			
Current Consumption	10.0 ~ 15 MHz: 1.5 mA max. 15.1 ~ 26.0 MHz : 2.0 mA max. 26.1 ~ 52.0 MHz : 3.5 mA max.			
Output Level	0.8 Vp-p min.			
Operating Temp. Range	-30~+85℃、-40~+85℃			
Storage Temp. Range	-55~+125℃			
Electrical Frequency Tuning (For VCTCXO)	Control Voltage Center	1.8V	2.5V/2.8V	3.0/3.3V
		0.9±0.6V	1.4±1.0V	1.5±1.0V
	Frequency Control Range	±5.0ppm min.		
Start-up Time	2.0mS typ., 5.0mS max.			
Phase Noise	-115 dBc/Hz max @100Hz offset			
	-135 dBc/Hz max @1KHz offset			
	-148 dBc/Hz max @10KHz offset			

○ All specification subject change without notice.

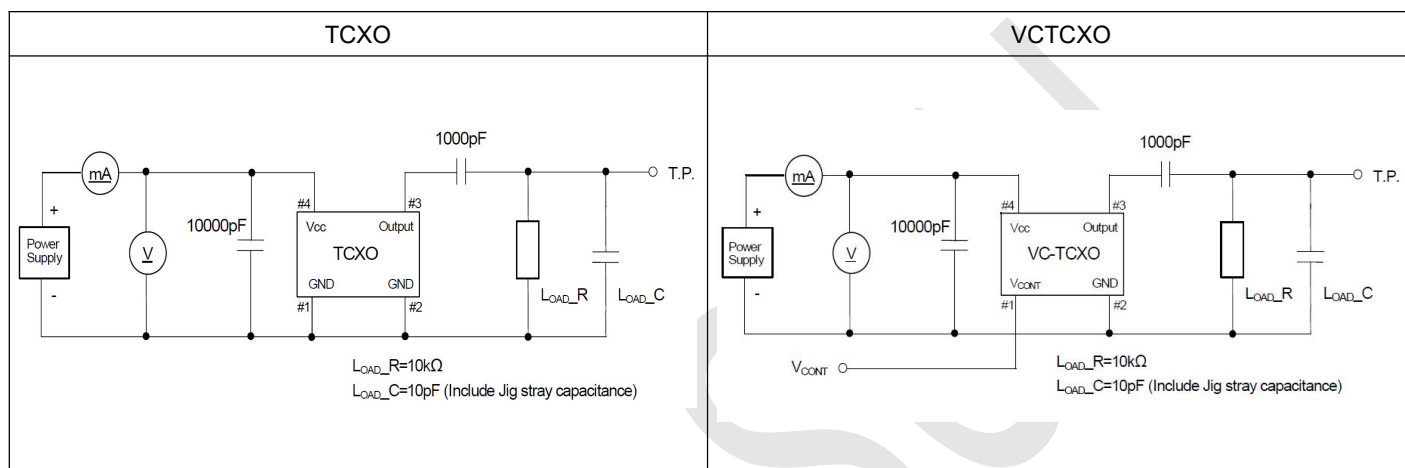
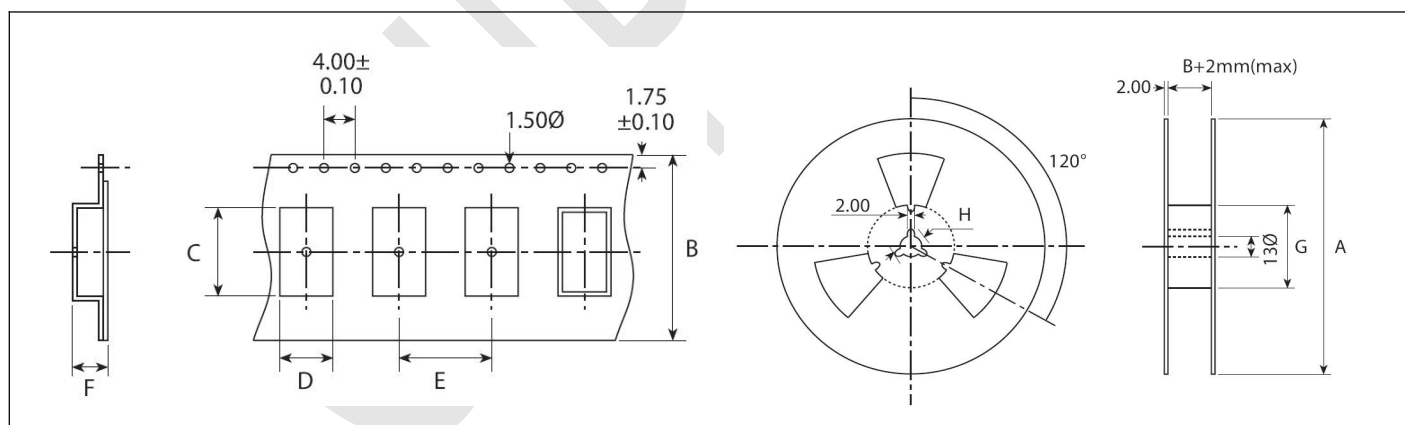
★ DIMENSIONS& LAND PATTERN LAYOUT (Unit: mm)



Pin	Connection
1	GND(TCXO) V _{CON} (VCTCXO)
2	GND
3	Output
4	V _{DD}

**★ PART NUMBER GUIDE** e.g. FTO26.000M3.0SM2S-1.0/2.5C (*SM2S=2.5×2.0 SMD TYPE, Sin Wave)

Logo	Type	Frequency	Supply Voltage	Package	Output Waveform	Frequency Tolerance	Frequency Stability	Operating Temp.
F	TO	26.000M	3.0	SM2	S	1.0	2.5	C
	VTO							

★ TEST CIRCUIT**★ TAPING SPECIFICATION (Unit: mm)**

	A	B	C	D	E	F	G
TCXO-SMD2520	180±2.0	8.0±0.3	2.80±0.10	2.30±0.10	4.0±0.1	1.6±0.2	60.5±1.0
3000 pcs per reel							