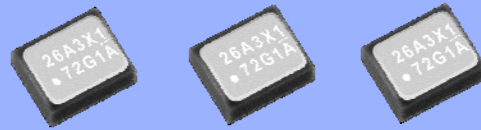


TCXO ULTRA MINIATURE SIZE LOW PROFILE HIGH STABILITY TG-5025BA

- Frequency range : 13 MHz to 52 MHz
- Supply voltage : 1.8 V Typ.
- Frequency / temperature characteristics : $\pm 0.5 \times 10^{-6}$ Max.
- External dimensions : 2.1 × 1.7 × 0.75 t (mm) Typ.
- Applications : Cellular phone (GPS)
- Features : World's smallest size.
: Low supply voltage(1.8 V)



Product Number (Please contact us)
X1G003601xxxx00



Actual size

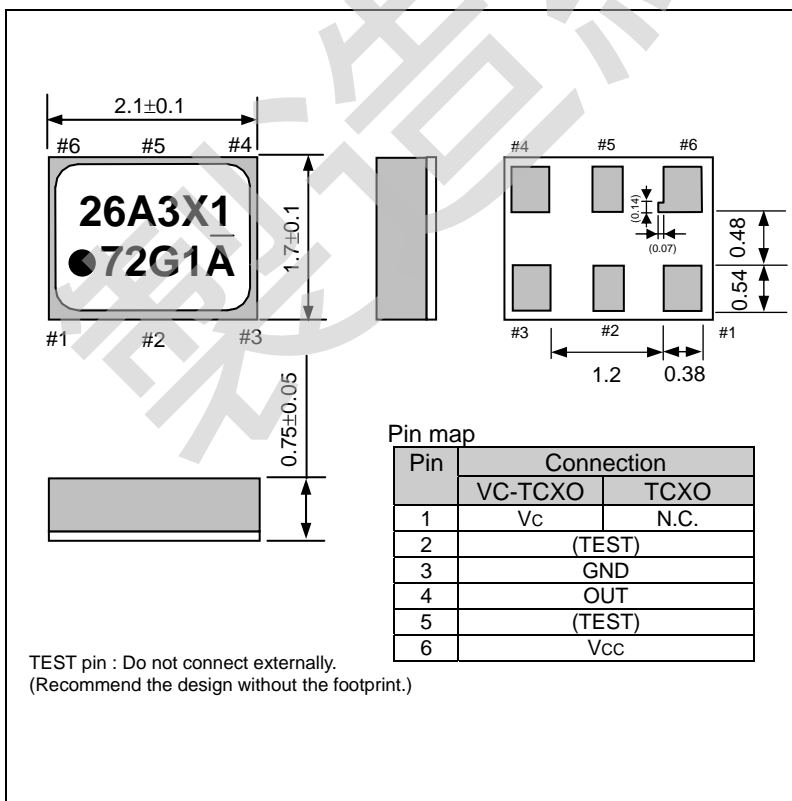
Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		VC-TCXO	TCXO	
Output frequency range	f_0	13.000 MHz to 52.000 MHz 13 MHz, 16.368 MHz, 19.2 MHz, 26 MHz, 27.456 MHz, 38.4 MHz		Standard frequency
Supply voltage	V _{cc}	1.8 V ± 0.1 V		Supply voltage range 1.7 V to 3.3 V
Temperature range	Storage temperature	-40 °C to +85 °C		Store as bare product after unpacking
	Operating temperature	-30 °C to +85 °C		
Frequency tolerance	f_{tol}	$\pm 2.0 \times 10^{-6}$ Max.		After reflow, V _c =0.9 V, +25 °C
Frequency/temperature characteristics	f_0 -T _c	$\pm 0.5 \times 10^{-6}$ Max.		-30 °C to +85 °C
Frequency / load coefficient	f_0 -Load	$\pm 0.2 \times 10^{-6}$ Max.		10 kΩ // 10 pF ± 10 %
Frequency / voltage coefficient	f_0 -V _{cc}	$\pm 0.2 \times 10^{-6}$ Max.		V _{cc} =1.8 V ± 0.1 V
Frequency aging	f_{age}	$\pm 1.0 \times 10^{-6}$ Max.		+25 °C, First year, 13 MHz ≤ f_0 ≤ 40 MHz
		$\pm 1.5 \times 10^{-6}$ Max.		+25 °C, First year, 40 MHz < f_0 ≤ 52 MHz
Current consumption	I _{cc}	2.0 mA Max.		13 MHz ≤ f_0 ≤ 40 MHz
		2.5 mA Max.		40 MHz < f_0 ≤ 52 MHz
Input resistance	R _{in}	500 kΩ Min.	—	V _c -GND(DC)
Frequency control range	f_{cont}	$\pm 5.0 \times 10^{-6}$ to $\pm 12.0 \times 10^{-6}$		V _c =0.9 V ± 0.6 V
Frequency change polarity	—	Positive polarity		—
Symmetry	SYM	40 % to 60 %		GND level (DC cut)
Output voltage	V _{PP}	0.8 V Min.		Peak to peak
Load resistance	Load_R	10 kΩ		—
Load capacitance	Load_C	10 pF		DC cut capacitor = 0.01 μF

Note: Please contact us for inquiries about specifications other than the above.

External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

