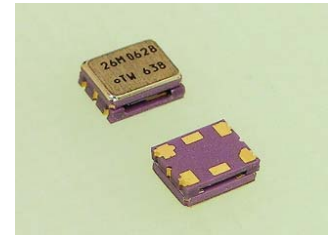


Package : TTS27NSC-A18 / TTS27VSC-A18

Temperature Compensated Crystal Oscillator (TCXO / VC-TCXO)

◆ Feature

Reflow solderable, Ceramic SMD package base offers superior flatness. Ultra-compact (2.5×2.0), lowest height, light weight, and low Current consumption type. Low Frequency available using built in 1/2 frequency divide down function. RoHS compliant.



◆ **Applications** Cell phone, Base station, GPS, and mobile radio application.

◆ Specifications

Note : Modified specifications are available upon request for specific applications.

Item	Symbol	Specifications		Conditions
		TTS27NSC-A18 (TCXO)	TTS27VSC-A18(VC-TCXO)	
Output frequency	f_0	19.2 MHz to 52.0 MHz		
Supply voltage	Vcc	+2.3V to +3.7V		
Current consumption	Icc	2.0 mA max.		at Vcc=+2.8V, 10 kOhm//10 pF
Output voltage	Vpp	0.8 V min.		NOTE 1) DC coupling
Load	Load_R,C	10 kOhm // 10 pF		
Frequency Stability				
/Frequency tolerance	f_{tol}	$\pm 1.0 \times 10^{-6}$ max.		After reflow , at +25 °C
/ temperature characteristics	f_{0_TC}	$\pm 2.0 \times 10^{-6}$ max.		-30 °C to +85 °C , at Vc=+1.5V
/ voltage coefficient	f_{0_Vcc}	$\pm 0.2 \times 10^{-6}$ max.		at Vcc=+2.8V $\pm 5\%$
/ load coefficient	f_{0_Load}	$\pm 0.2 \times 10^{-6}$ max.		at (10kOhm // 10pF) $\pm 10\%$
/ Frequency ageing	f_{age}	NOTE 2) $\pm 1.0 \times 10^{-6}$ max.		1 year , at +25 °C
Frequency controlled range	f_{cont}	---	± 5 to $\pm 15 \times 10^{-6}$	Vc=+1.4V ± 1.0 V , Positive polarity

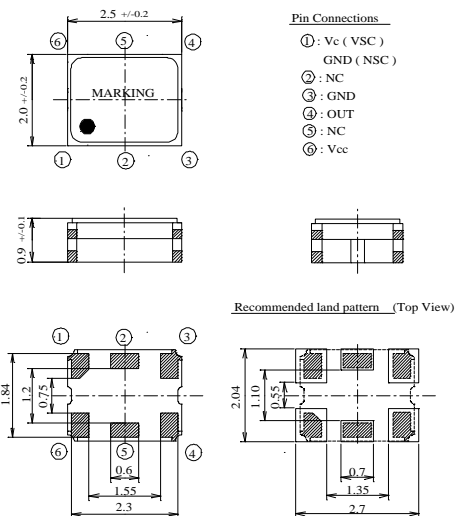
NOTE 1) DC-cut capacitor of output is not put in TCXO. Please add DC-cut capacitor (1,000pF) in oscillator output line.

◆ Phase Noise

Frequency Offset (Hz)	Phase Noise (dBc/Hz)
100	-110 typ.
1k	-132 typ.
10k	-147 typ.
100k	-151 typ.

at $f_0=26.000\text{MHz}$ (25 $\pm 2^\circ\text{C}$)

◆ Outline



The ordering number will be obtained separately by customer's requirement.

TEW TEW AMERICA, INC.,

<http://www.tewamerica.com>

Specifications subject to change without notice. Jan / 2011