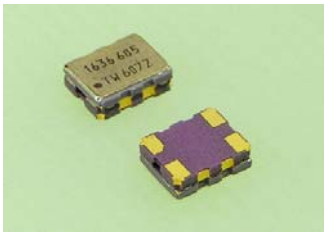
Package : TTS18NSH-A7 / TTS18VSH-A7

Low Voltage high precision Temperature Compensated Crystal Oscillator (TCXO / VC-TCXO)

♦Feature



Reflow solderable, Ceramic SMD package base offers superior flatness.
Ultra-compact (3.2×2.5), lowest height, light weight,
and low Current consumption type. Low supply voltage (Vcc=1.7V min) available.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
		TTS18NSH-A7 (TCXO)	TTS18VSH-A7(VC-TCXO)	
Output frequency	f_0	10.0 MHz to 52.0 MHz		
Supply voltage	Vcc	+1.7V to +3.3V		
Current consumption	Icc	NOTE 2) 1.5 mA max.		at Vcc=+1.8V, 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	± 1.0×10^{-6} max.		After reflow , at +25 °C
/ temperature characteristics	f_0_T_C	± 0.5×10^{-6} max.		-30 °C to +85 °C , at Vc=+0.9V
/ voltage coefficient	f_0_Vcc	± 0.2×10^{-6} max.		at Vcc=+1.8V ± 5%
/ load coefficient	f_0_Load	± 0.2×10^{-6} max.		at (10kOhm // 10pF) ± 10%
/ Frequency ageing	f_age	NOTE 2) ± 1.0×10^{-6} max.		1 year , at +25 °C
Frequency controlled range	f_cont	---	±3 to ±5×10^{-6}	Vc=+0.9V±0.6V , 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.

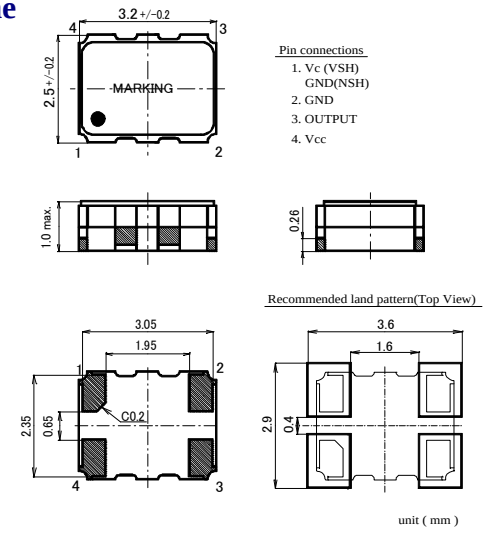
NOTE 2) at f_0=26.000MHz

♦ Phase Noise

Frequency Offset (Hz)	Phase Noise (dBc/Hz)
100	-110 typ.
1k	-130 typ.
10k	-145 typ.
100k	-145 typ.

at f_0=26.000MHz (25±2°C)

♦Outline



unit (mm)

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