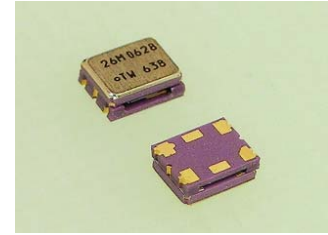


# Package : TTS27ESC-A7

## Low Voltage high precision Temperature Compensated Crystal Oscillator (TCXO with Enable/Disable function)

### ◆ Feature

- Reflow solderable, Ceramic SMD package base offers superior flatness.
- Ultra-compact (2.5×2.0), lowest height, light weight.
- Low current consumption type.
- Low supply voltage (Vcc=1.7V min) available .
- TCXO with Enable / Disable Pin(Please see Outline). RoHS compliant.



### ◆ Applications

Cell phone, Base station, GPS, WiFi / Bluetooth , mobile radio application.

### ◆ Specifications

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

Item	Symbol	Specifications	Conditions
		TTS27ESC-A7 (TCXO)	
Output frequency	$f_0$	10.0 MHz to 52.0 MHz	
Supply voltage	Vcc	+1.7V to +3.7V	
Current consumption	Icc	NOTE <sup>2)</sup> 1.5 mA max.	at Vcc=+1.8V, 10 kOhm//10 pF
Output voltage	Vpp	0.8 V min.	NOTE <sup>1)</sup> 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	$f_{0\_TC}$	$\pm 0.5 \times 10^{-6}$ max.	-30 °C to +85 °C ,
/ voltage coefficient	$f_{0\_Vcc}$	$\pm 0.2 \times 10^{-6}$ max.	at Vcc=+1.8V $\pm 5\%$
/ load coefficient	$f_{0\_Load}$	$\pm 0.2 \times 10^{-6}$ max.	at (10kOhm // 10pF) $\pm 10\%$
/ Frequency ageing	$f_{age}$	NOTE <sup>2)</sup> $\pm 1.0 \times 10^{-6}$ max.	1 year , at +25 °C

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

NOTE<sup>2)</sup> at  $f_0=26.000\text{MHz}$

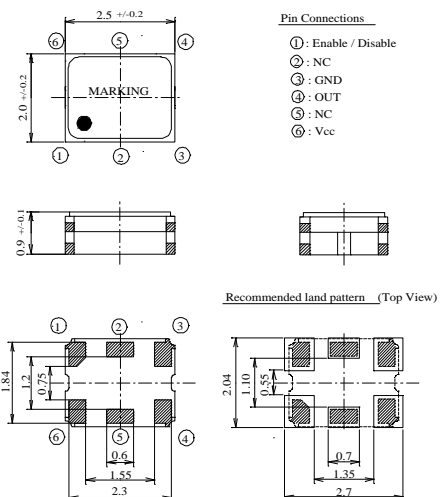
### ◆ Phase Noise

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±2°C)

Regarding the Phase noise value , please ask us for more detail.

### ◆ Outline



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