# TTS12NS/VS

## Temperature Compensated Crystal Oscillator(TCXO)

#### **Feature**

Reflow solderable, Ceramic SMD package base offers superior flatness.

Ultra-compact (7.0×5.0), lowest height, light weight, and low

Current consumption type.

Suitable for Cell phone or mobile radio application.

#### ■ Specifications

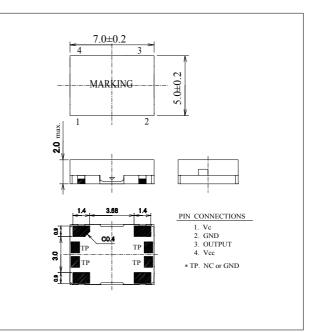
Size	7.0 × 5.0 × 2.0 (mm)	
Model Name	TTS12NS	TTS12VS
Output Frequency	12.60 ~ 20.0 (MHz)	
Supply Voltage	3.0 ± 5% (V)	
Supply Current	2.0 max. (mA)	
Output Level	0.8 min. (Vp-p)	
Load	$10 (k\Omega) // 10 (pF) \pm 10\%$	
Frequency Stability	Table 1	
	-40 ~ 85 ( °C)	
Voltage Controlled Range	-	±5 ~ ±15 (ppm):VC=1.5V±1.0V at Vcc=3.0V

### **Table 1** Frequency Stability

	Frequency Stability
Temperature Range (-20 $\sim$ 75 °C )	± 2.5 (ppm)
Supply Voltage $(3.0 \text{ V} \pm 5\%)$	± 0.2(ppm)
Load(10k $\Omega$ // 10pF ±5%)	± 0.3 (ppm)
Initial Frequency Tolerance	± 0.5 (ppm)
$(at 25 \pm 2 ^{\circ}C)$	
Aging(year)	± 1.0 (ppm)

\* Products with specific requirements are available upon request.

## ■**Outline**



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