



HSA211S/HSB211S Series-2.0mm x 1.6mm CRYSTAL OSCILLATOR, VC-TCXO/ TCXO



Features

- Small package size which can meet all major communication medium requirements.
- Voltage Control Function available.
- Major applications include GPS, RF modules, WiFi, mobile phones and other common communication devices.

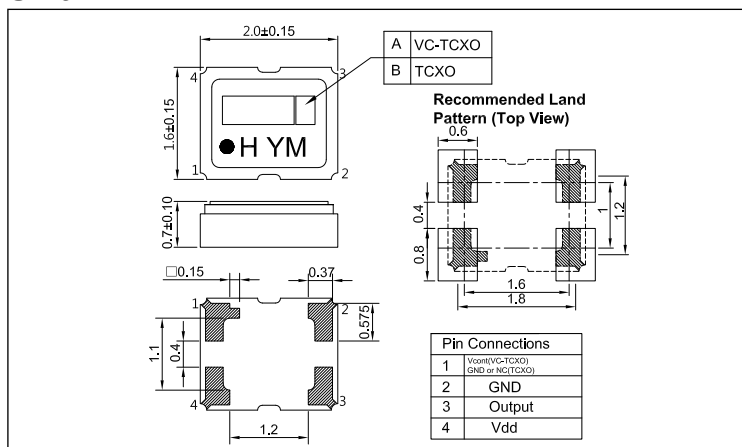
STANDARD SPECIFICATION:

ITEMS		PARAMETER	
		TCXO	VC-TCXO
Frequency Range		13 ~ 52MHz	
Supply Voltage		1.8 ~ 3.3 V	
Current Consumption		1.5 mA max.(f≤26MHz) / +2.0mA max.(26<f≤52MHz)	
Harmonics		- 5 dBc Max.	
Output Level		0.8 Vp-p min	1.1 Vp-p min
Output Load		10KΩ // 10pF	
Frequency Stability	Tolerance	± 2.0 ppm max. (After 2 times reflow)	
	vs Temperature	± 0.5 ppm max. / -30 ~ +85°C	± 2.0 ppm max. / -30 ~ +85°C
	vs Slope	± 0.2 ppm /°C max. (-30 ~ +85°C)	
	vs Supply Voltage	± 0.2 ppm max. (vdd±5%)	
	vs Load Variation	± 0.2 ppm max. (10KΩ / 10pF±10%)	
Frequency Control	vs Aging	± 1ppm / year	
	Control sensitivity	-	±9.0 ~ ±15ppm / Vcont=+1.4V±1V@Vdd=2.8V
Start Up		2.0 ms max.	
Phase Noise	offset 1kHz	-135 dBc / Hz [f ≤26MHz] / -135 dBc / Hz [26MHz < f ≤40MHz] / -130 dBc / Hz [40MHz < f ≤52MHz]	

Packing Unit : 3,000pcs/Reel.

DIMENSION

Unit: mm



Measurement Circuit:

