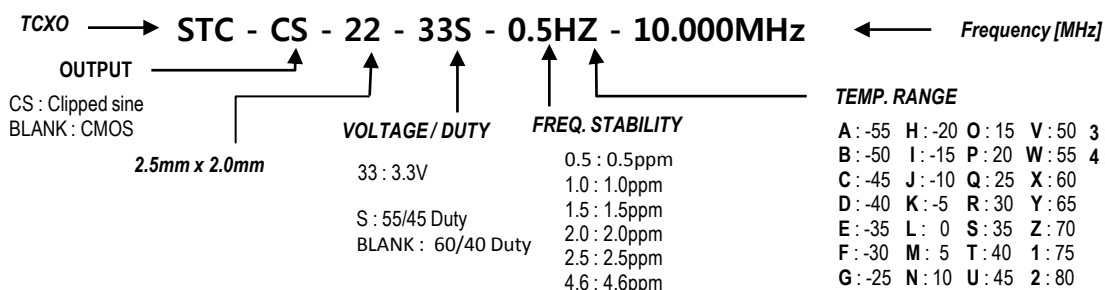


Features & Applications

- Temperature Compensated Crystal Oscillator
- GPS, Small Cell Base Stations, PCS Base Stations
- Clipped Sine Wave or CMOS Output
- WiMAX, Wi-Fi, Wi-LAN
- ±0.5ppm Temperature Stability available
- Wireless Communications, Handsets
- Fundamental Crystal Design
- Broadband Access
- Test and Measurement, Cellular Telephony


Part Numbering Guide

Electrical Characteristics

type	clipped sine wave	cmos	REMARK
frequency range	13.0 ~ 40.0MHz	6.0 ~ 40.0MHz	
supply voltage V _{DD}	3.3V ± 5%	3.3V ± 5%	
operating temperature	STD. -10°C ~ 70°C / Option: -40°C ~ 90°C		
storage temperature	-55°C ~ 125°C		
frequency stability	Temp.	± 0.5 ppm ~ ± 4.6 pm (overall)	
	Voltage	± 0.3 ppm @ V _{DD} ± 5%	
	Load	± 0.3 ppm @ Load ± 10%	
	aging	± 1.0 ppm max at +25°C ± 3°C for first year	
input current	2.0 mA max	10 mA max	
phase jitter 12kHz ~ 20MHz	< 1.0ps RMS		
output	load	10kΩ // 10pF	15pF max (HCMOS)
	logic level	V _{p-p} 0.7V min clipped sine wave (DC-cut)	low 10% V _{DD} max high 90% V _{DD} min
	symmetry	55/45 @ 50% V _{DD}	
	rise / fall time	10 nS MAX / 10% V _{DD} to 90%	
start up time	10 mS MAX		

All specifications are subject to change without notice

Outline
