Crystal Oscillator

Crystal Bridge to the Future

NT2520SC

CMOS output Temperature Compensated Crystal Oscillator(TCXO) with E/D function

Main Application

Wireless module for Smart Meter, Bluetooth module for Automotive

Features

- Output level : CMOS
- Supports low power supply voltage. (Supports DC +1.6 V to +3.63 V.)
- Compact and light with a height, cubic volume, and weight of Max. 0.9 mm, 0.004 cm³, and 0.014 g, respectively.
- A surface-mount crystal oscillator. (Reflow soldering is possible.)
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.



PbRoHS CompliantFreeDirective 2011/65/EU

Specifications

Item Model		NT2520SC	
Nominal Frequency (MHz)		10 to 52	
Supply Voltage [Vcc] (V)		+1.8	+3.3
Load Impedance (pF)		15	
Current Consumption	Enable (mA)	Max. 10 (26MHz)	
	Disable (µA)	Max. 10 (Vcc = +3.3V)	
VoL Max. / Voн Min. (V)		0.2 Vcc / 0.8 Vcc	
Tr Max. / Tf Max. (ns)		5/5 (at 0.2 to 0.8Vcc)	
Symmetry Min. to Max. (%)		45 to 55 (at 1/2Vcc)	
Frequency/Temperature Characteristics		Max. ±2.5×10 ⁻⁶	
Operating Temperature Range (°C)		-30 to +85	
Storage Temperature Range (°C)		-40 to +85	
Long-term Frequency Stability		Max. ±1.0×10 ⁻⁶ /year	
Specification Number		NSA3642B	NSA3643B

Frequency setting conditions : Frequencies are set at normal temperatures (+25±2 °C).



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