

# SPARK TECHNOLOGY LIMITED

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# SPT0002 – Radio Controlled Clock Module (Preliminary 1.0)

#### • DESCRIPTION

SPT0002 is a radio controlled clock module for Europe, with high sensitivity and timing accuracy. This module can be easily interface with MCU by a standard input port. The SPT0002 consists of a ST6005, RCC receiver IC with a high Q antenna bar to provide good reception. All modules are well calibrated to make sure no extra work you should make during the production.



- FEATURES
  - Convenient to use
  - Built-in ferrite antenna
  - High Sensitivity
  - Fully RoHS compliant

#### • APPLICATIONS

- Weather Station
- Traveling Clock

### • TECHNICAL SPECIFICATIONS

Parameter	Specification
Operating Voltage	1.5V ~ 5.0V
Sensitivity	60dBuV /m
Setup Time	1.5 sec
Current consumption (Standby)	<2uA
Current consumption (Operating)	<250uA
Operating temperature	0°C ~ +50°C

### **PIN DESCRIPTION**

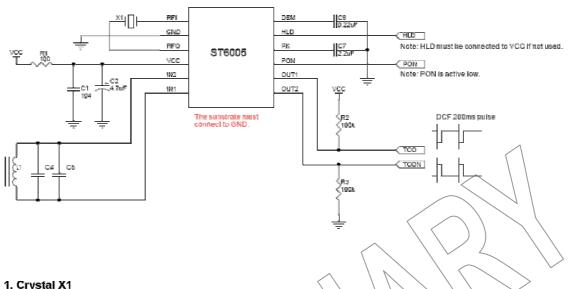
Pin	Name	I/O	Function
1	V	Power	Supply voltage, connect to VDD
2	G	Power	Ground
3	Т	0	Data output
4	Р	I	Power enable (Active low)



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#### APPLICATION CIRCUIT



Time-Signal system	Location	Antenna Frequency	Recommended Crystal Frequency
DCF77	Germany	77.5 kHz	77.503 kHz
MSF	United Kingdom 🤇	60 kHz	60.003 kHz
WWVB	USA	60, kHz	60.003 kHz
JJY	Japan	40 kHz and 60 kHz	40.003 kHz and 60.003 kHz
			>

20ppm, R<sub>1</sub>=40kΩ, C<sub>L</sub>=12.5p, C<sub>0</sub><1p

Frequency	Cant	L <sub>ant</sub>	Q
40kHz	4.7nF	3.28mH	>100
60kHz	3.3nF	2.10mH	>100
77.5kHz	2.2nF	1.88mH	>100

## **CONTACT INFORMATION**

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