**BT06 Bluetooth Serial Port communication module**

AT order set

Users can communicate via serial ports and BT06 Bluetooth, using Tx, Rx two signal lines with 1200,2400,4800,9600,14400,19200,38400,57600,115200,230400,460800 and 921600bps.The serial port default port rate was 9,600 b p s.

**1. physical characteristics:**

|  |  |
| --- | --- |
| Operating Frequency Band | 2.4GHz -2.48GHz unlicensed ISM band |
| Bluetooth Specification | V2.1+EDR |
| Output Power Class | Class 2 |
| Operating Voltage | 3.3V |
| Host Interface | UART |
| Dimension | 27mm (L) x 13 (W) mm x 2mm (H) |

**2. Electrical characteristics:**

|  |  |  |
| --- | --- | --- |
| **Absolute Maximum Ratings** | | |
| **Rating** | **Min** | **Max** |
| Storage temperature | -40℃ | +150℃ |
| Supply voltage: VBAT | -0.4V | 5.6V |
| Other terminal voltages | VSS-0.4V | VDD+0.4V |

|  |  |  |
| --- | --- | --- |
| **Recommended Operating Conditions** | | |
| **Operating Condition** | **Min** | **Max** |
| Operating temperature range | -40℃ | +150℃ |
| Guaranteed RF performance range(a) | -40℃ | +150℃ |
| Supply voltage: VBAT | 2.2V | 4.2V(b) |

**3. Power dissipation:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Operation Mode** | **Connection Type** | **UART Rate(kbps)** | **Average** | **Unit** |
| Page scan | - | 115.2 | 0.42 | mA |
| ACL No traffic | Master | 115.2 | 4.60 | mA |
| ACL With file transfer | Master | 115.2 | 10.3 | mA |
| ACL 1.28s sniff | Master | 38.4 | 0.37 | mA |
| ACL 1.28s sniff | Slave | 38.4 | 0.42 | mA |
| SCO HV3 30ms sniff | Master | 38.4 | 19.8 | mA |
| SCO HV3 30ms sniff | Slave | 38.4 | 19.0 | mA |
| Standby Host connection | - | 38.4 | 40 | μA |