SPRINT Pulse Generator Ref 9610

BLE User Interface PCBA

Chip Antenna AH316M245001-T

Qualcomm BLE Radio IC CSR1011

Y1 16MHz Crystal Oscillator

Y2 32.768KHz Crystal Oscillator

BLE

Stimulator PCBA

MSP430 µController

Y4 32.768KHz Crystal Oscillator

Y3 32.768KHz Crystal Oscillator

Light Lead

Dark Lead

UART

SPRINT Rechargeable Battery Pack REF 9612

VBAT

GND

Mounting Pad REF 9618

Mounted to Patient Skin

Patient

Timing/ clock source for the BLE Radio is derived from a 16MHz crystal oscillator (Y1) that is factory calibrated to 16MHz +/-20Hz (1.25ppm). Y2 is the application clock source for low power/ sleep state.

100% of all units sold get calibrated to this requirement, if the crystal can't be calibrated to this specification, the unit is rejected.

See 80027-SCH-000 for connection details.