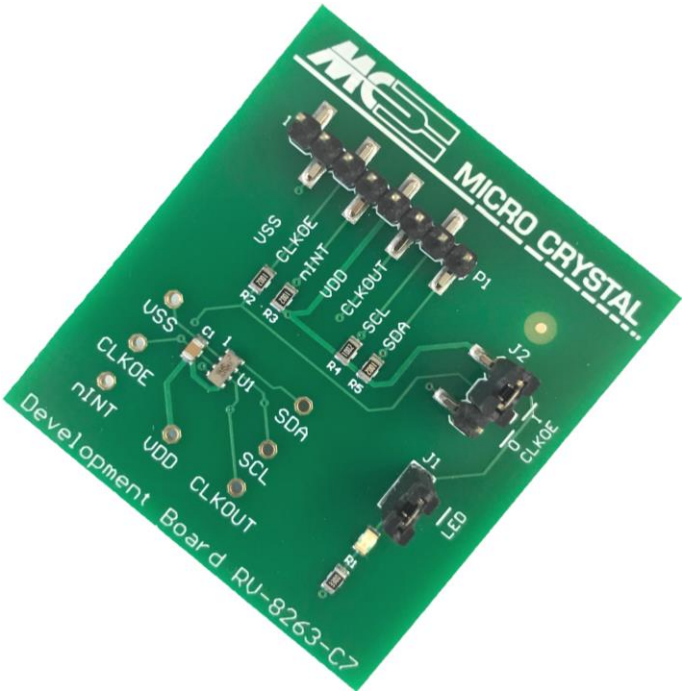
MICRO CRYSTAL SWITZERLAND

# RV-8263-C7
## Development Board

# DEVELOPMENT BOARD




# RV-8263-C7

## Low-Power Real-Time Clock / Calendar Module

| DATE: | January 2019 | Revision No.: 1 |
|---|---|---|



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# RV-8263-C7

The RV-8263-C7 is soldered onto the Development Board.
Every pin is either accessible at test pins 1 – 8 or at the test vias situated around the device.

The following passive components are already soldered on the board:

| | | |
|---|---|---|
| C1 | 10 nF | Decoupling capacitor between $V_{SS}$ and $V_{DD}$ |
| R1 | 330 Ω | Current limiting resistor for LED |
| LED | green | Supply on, current consumption of the LED has to be considered |
| R2 | 10 kΩ | Protection resistor to prevent short-circuit between external CLKOE signal and Jumper |
| R3 | 10 kΩ | Pull-up resistor $\overline{INT}$ to $V_{DD}$ |
| R4 | 10 kΩ | Pull-up resistor SCL to $V_{DD}$ |
| R5 | 10 kΩ | Pull-up resistor SDA to $V_{DD}$ |

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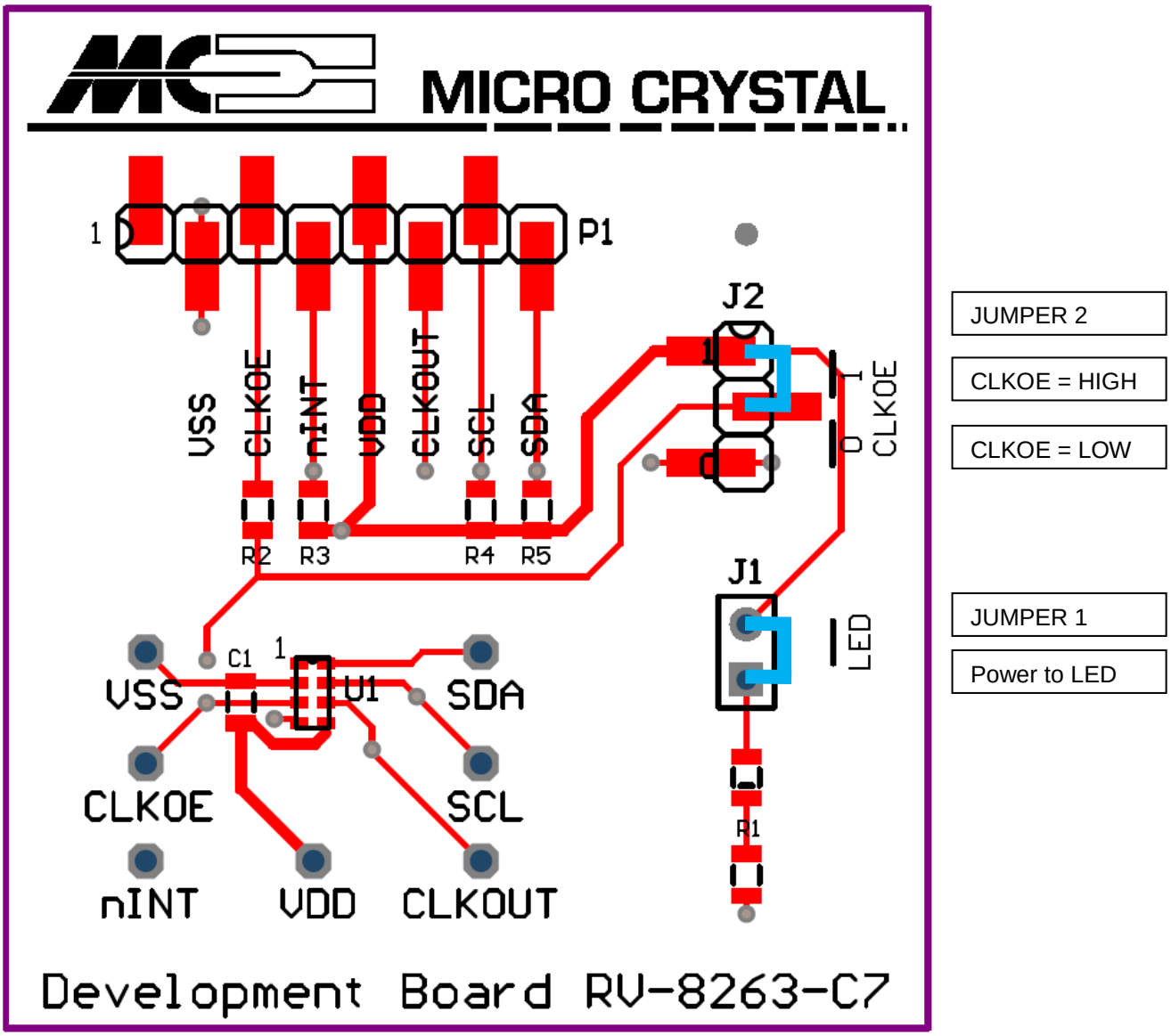

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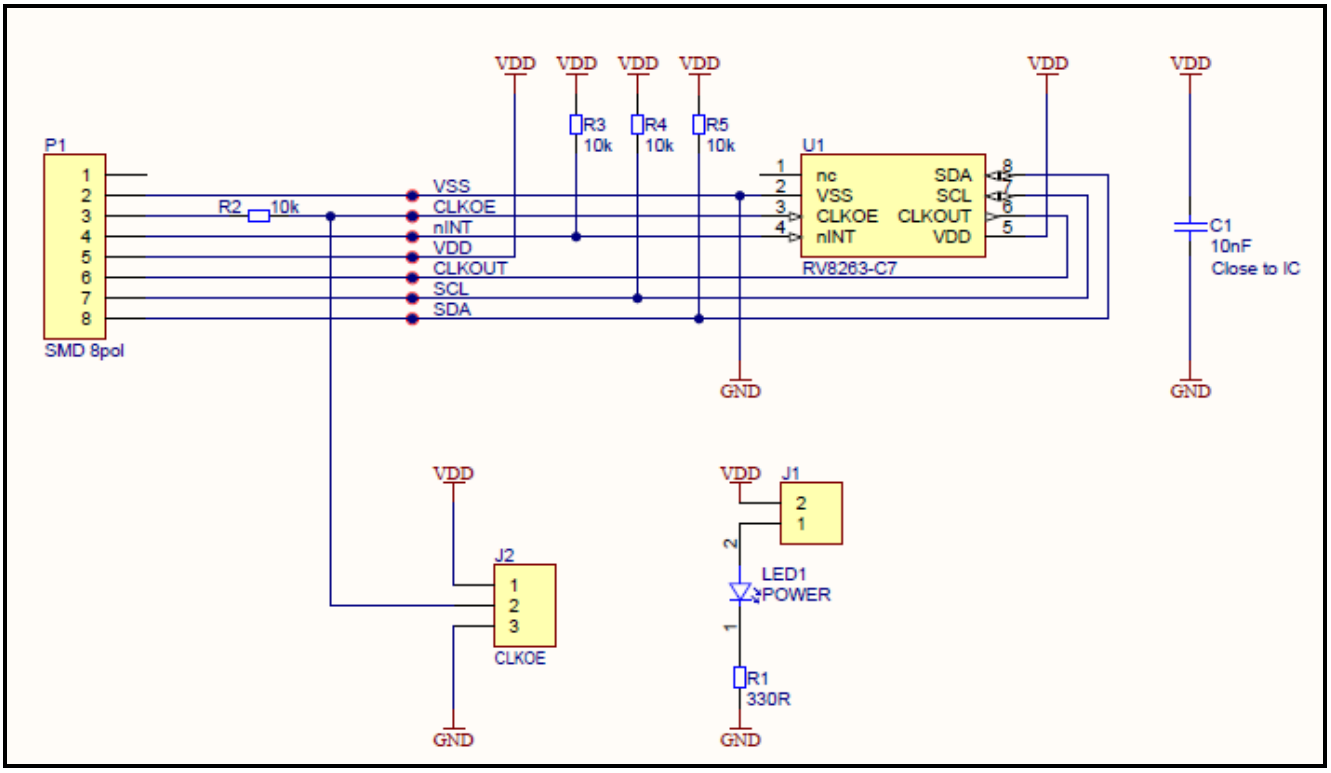
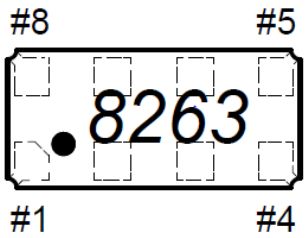
### SCHEMATICS




### PINOUT RV-8263-C7




| | | | |
|---|---|---|---|
| # 1 | NC | # 8 | SDA |
| # 2 | $V_{SS}$ | # 7 | SCL |
| # 3 | CLKOE | # 6 | CLKOUT |
| # 4 | $\overline{INT}$ | # 5 | $V_{DD}$ |

### PIN DESCRIPTION

| Symbol | Pin # | Description |
|---|---|---|
| NC | 1 | Not connected. Is internally connected and should be left floating. |
| VSS | 2 | Ground |
| CLKOE | 3 | Input to enable the CLKOUT pin. If CLKOE is HIGH, the CLKOUT pin is in output mode. When CLKOE is tied to Ground, the CLKOUT pin is LOW. |
| $\overline{INT}$ | 4 | Interrupt Output; open-drain; active LOW; requires pull-up resistor; Used to output alarm, minute, half minute, countdown timer and compensation Interrupt signals |
| VDD | 5 | Power Supply Voltage |
| CLKOUT | 6 | Clock Output; push-pull; controlled by CLKOE. If CLKOE is active HIGH, the CLKOUT pin drives the square wave of 32.768 kHz, 16.384 kHz, 8.192 kHz, 4.096 kHz, 2.048 kHz, 1.024 kHz or 1 Hz (Default value is 32.768 kHz). When CLKOE is tied to Ground, the CLKOUT pin is LOW |
| SCL | 7 | I2C Serial Clock Input. Requires pull-up resistor. |
| SDA | 8 | I2C Serial Data Input-Output. Requires pull-up resistor. |

Datasheet and Application-Manual are available for download under: www.microcrystal.com