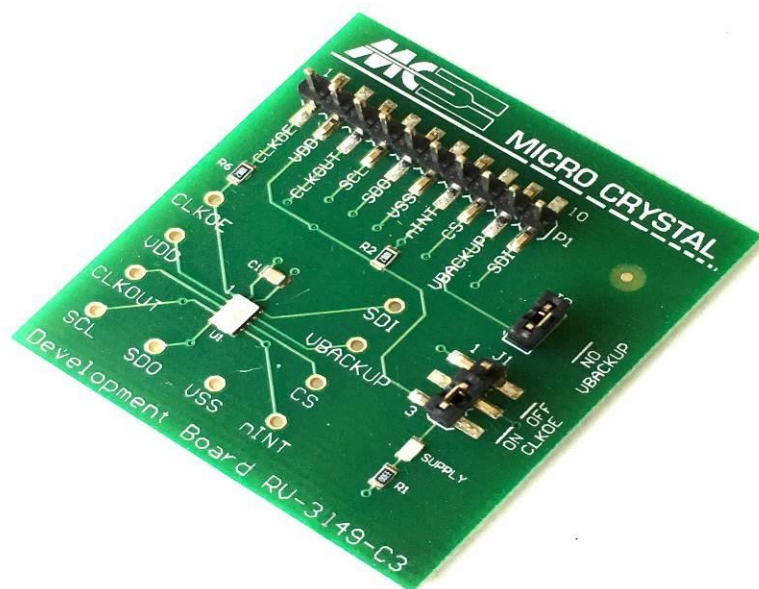


DEVELOPMENT BOARD



RV-3149-C3

Temperature Compensated Real-Time Clock / Calendar Module

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Headquarters: Micro Crystal AG
Muehlestrasse 14
CH-2540 Grenchen
Switzerland

Tel. +41 32 655 82 82
Fax +41 32 655 82 83
Internet www.microcrystal.com
Email sales@microcrystal.com

RV-3149-C3

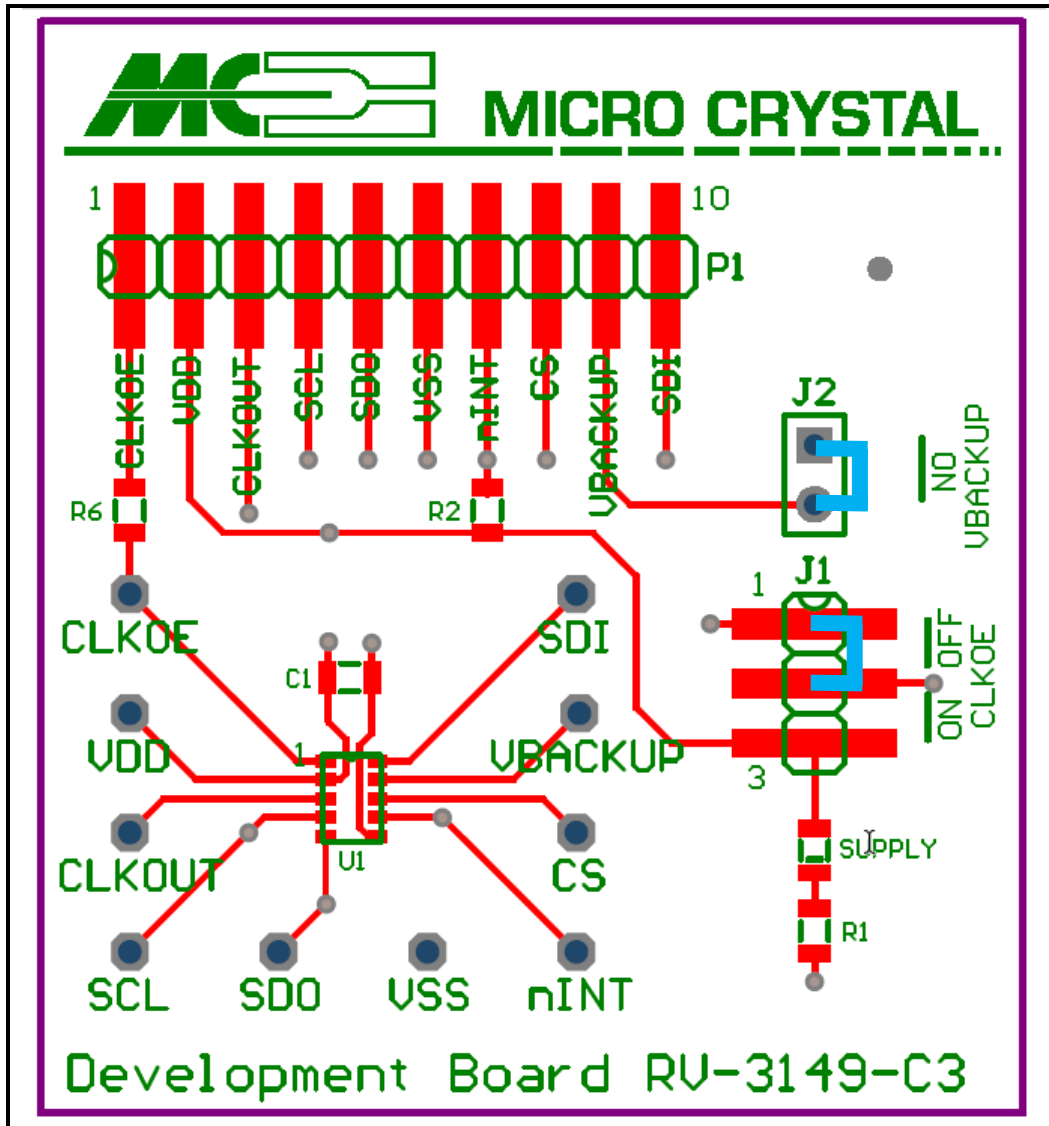
The RV-3149-C3 is soldered onto the Development Board.

Every pin is either accessible at test pins 1 – 10 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
LED1	green	Supply, current consumption of the LED has to be considered
R2	10 k Ω	Pull-up resistor INT to V_{DD}
R6	10 k Ω	Protection resistors to prevent short-circuit between external CLKOE signal and jumper.

DEVELOPMENT BOARD



JUMPER 2

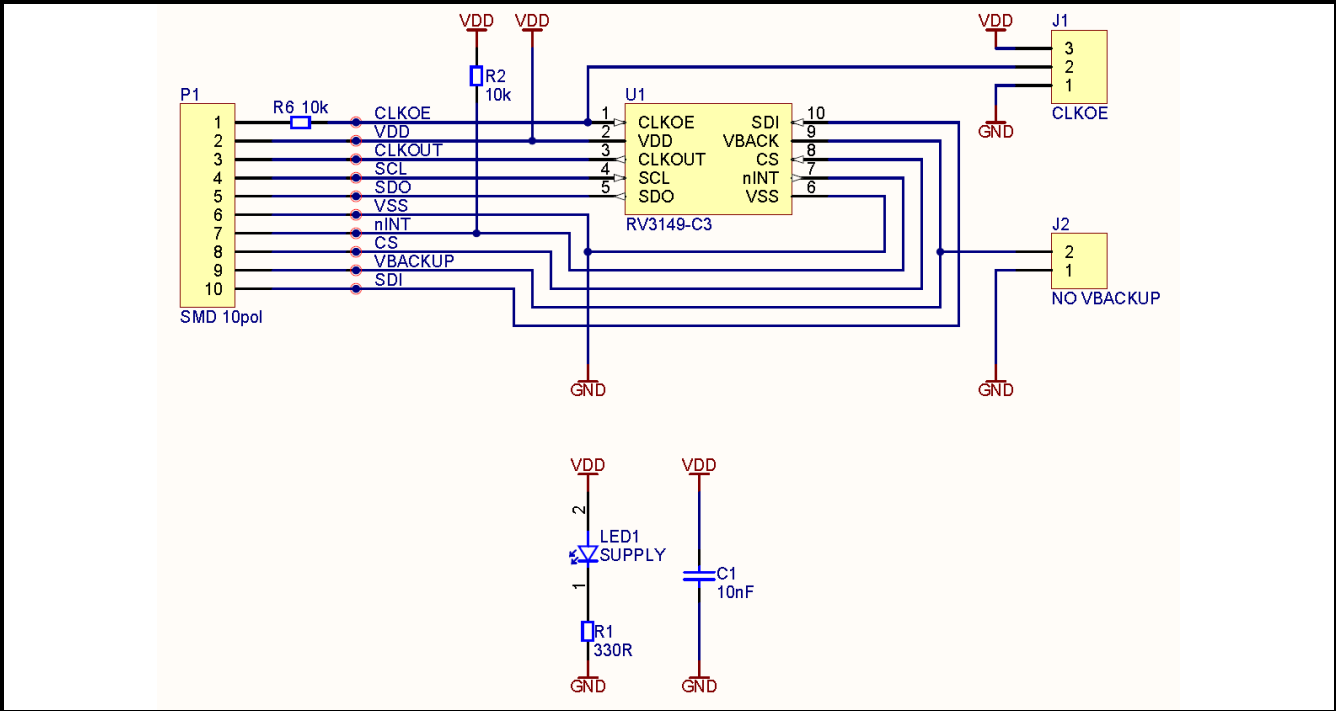
$V_{BACKUP} = GND$

JUMPER 1

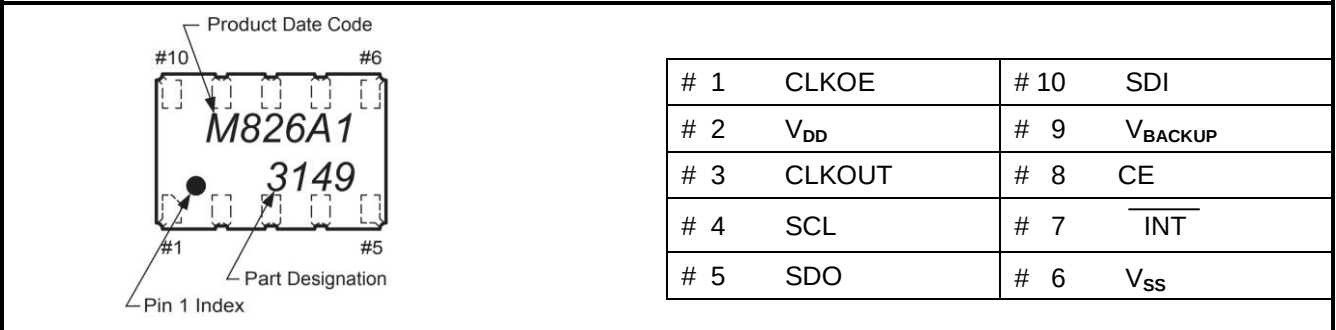
CLKOE = LOW

CLKOE = HIGH

SCHEMATICS



PINOUT RV-3149-C3



PIN DESCRIPTION

Symbol	Pin #	Description
CLKOE	1	CLKOUT enable/disable pin; enable is active HIGH
V _{DD}	2	Positive supply voltage; positive or negative steps in supply voltage may affect oscillator performance recommend 10 nF decoupling capacitor close to device
CLKOUT	3	Clock Output pin; open-drain
SCL	4	Serial Clock Input pin; may float when CE inactive
SDO	5	Serial Data Output pin; push-pull; high-impedance when not driving; can be connected to SDI for single-wire data line
V _{SS}	6	Ground
$\overline{\text{INT}}$	7	Interrupt output pin; open-drain; active LOW
CE	8	Chip Enable input; active HIGH; with internal pull-down
V _{BACKUP}	9	Backup Supply Voltage; tie to GND when not using a backup supply voltage
SDI	10	Serial Data Input pin; may float when CE inactive

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