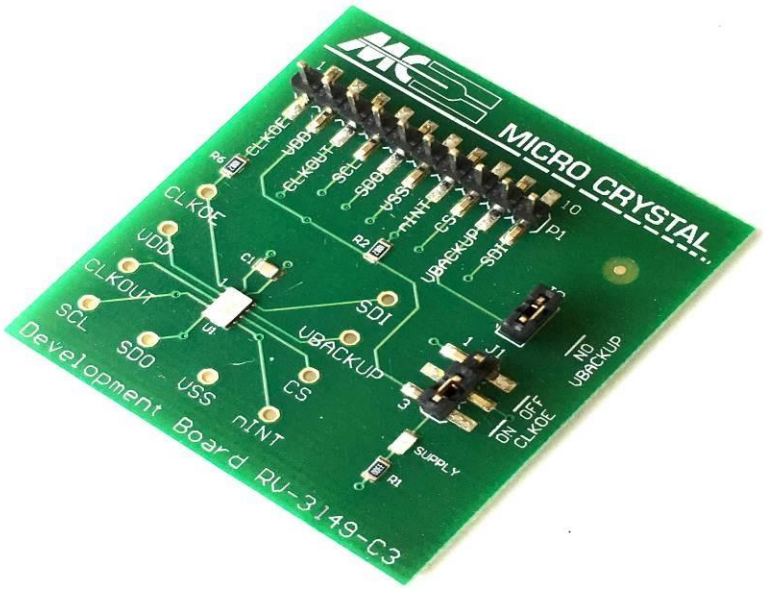
MICRO CRYSTAL SWITZERLAND

RV-3149-C3
Development Board

DEVELOPMENT BOARD



RV-3149-C3

Temperature Compensated Real-Time Clock / Calendar Module

DATE:	Nov 2018	Revision No.: 1

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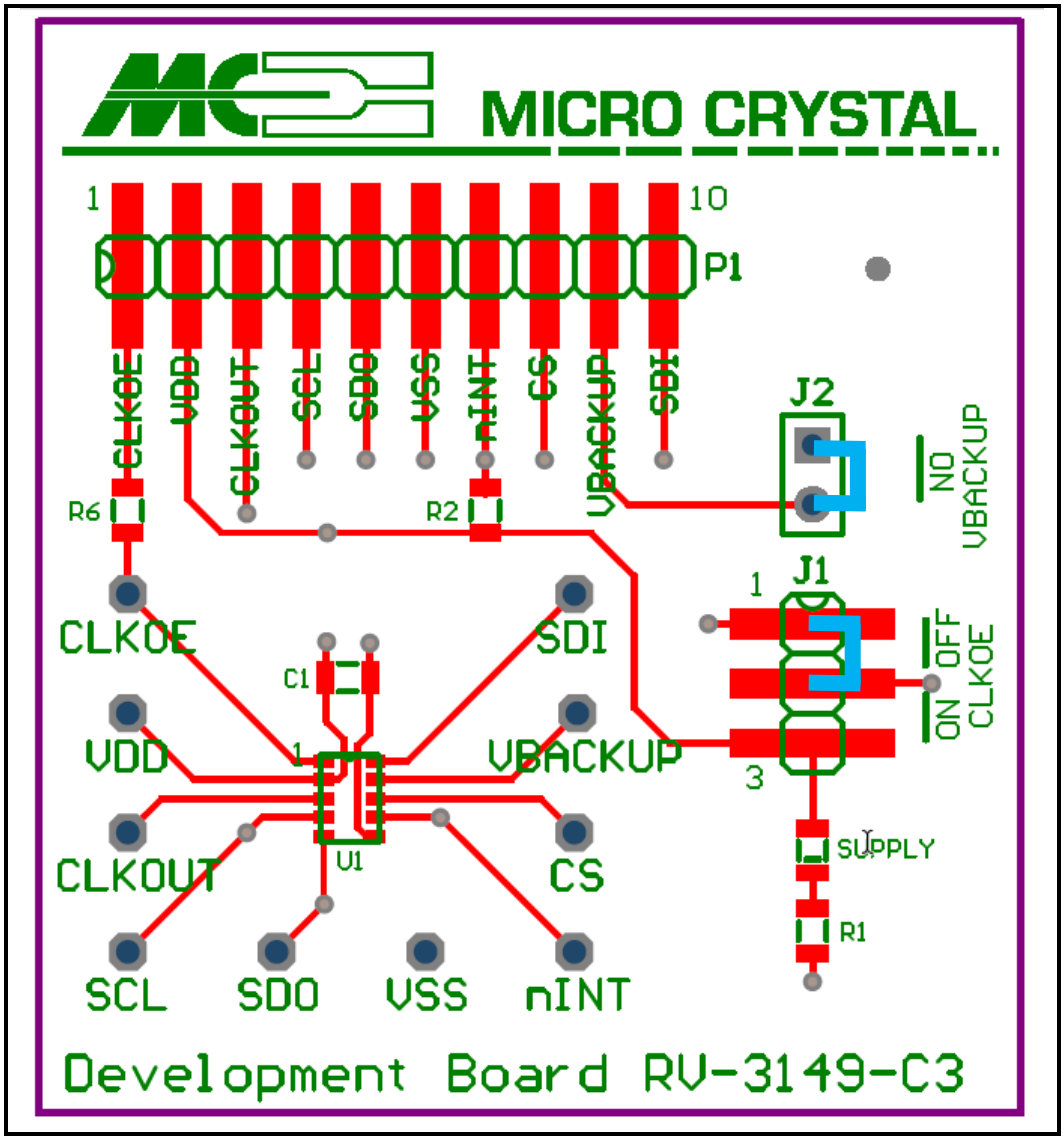
RV-3149-C3

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

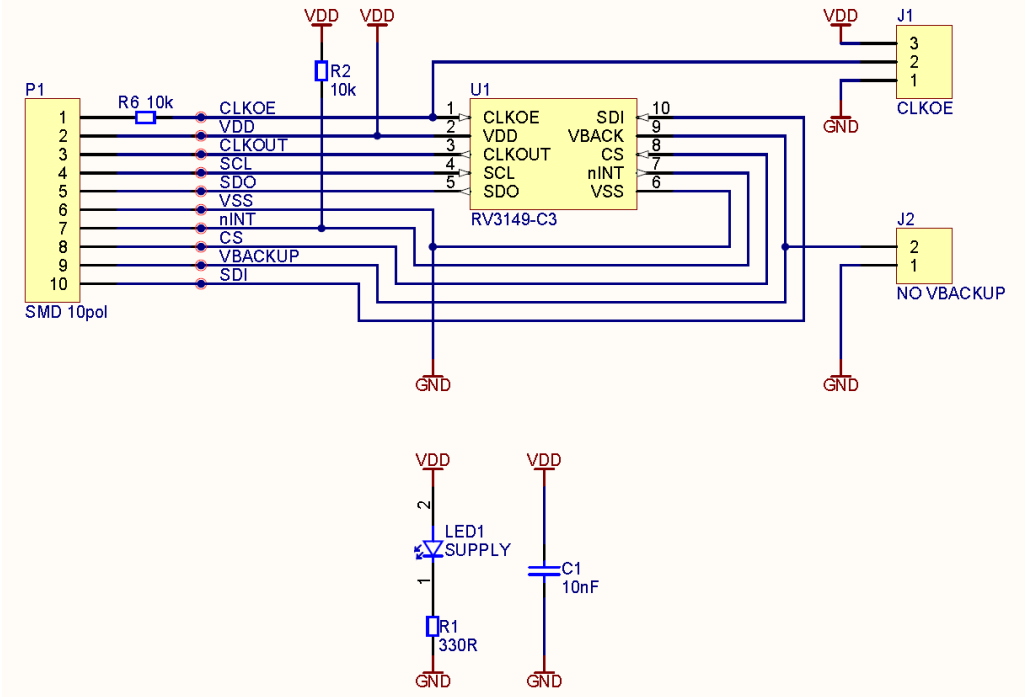
JUMPER 1

CLKOE = LOW

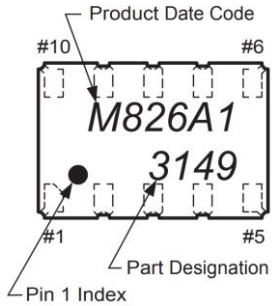
CLKOE = HIGH

Development Board RV-3149-C3

SCHEMATICS



PINOUT RV-3149-C3



# 1	CLKOE	# 10	SDI
# 2	V_{DD}	# 9	V_{BACKUP}
# 3	CLKOUT	# 8	CE
# 4	SCL	# 7	$\overline{INT}$
# 5	SDO	# 6	V_{SS}

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
$\overline{INT}$	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