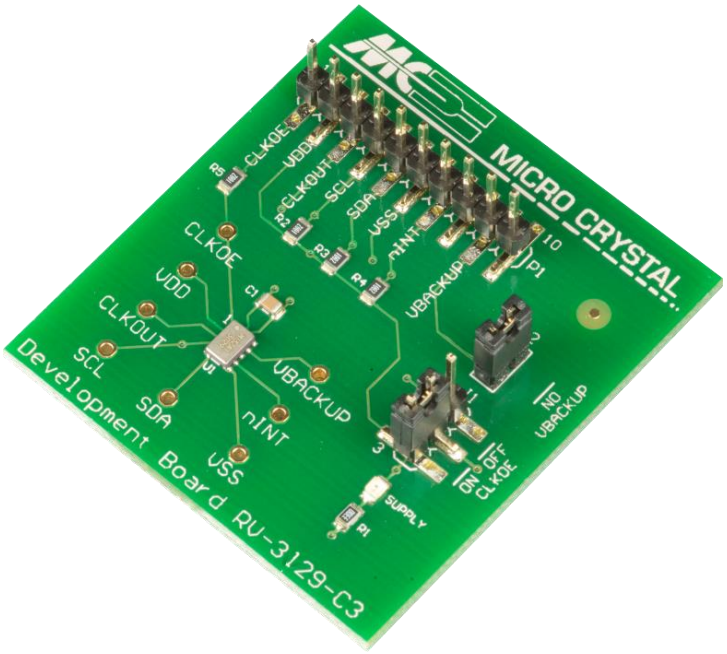
MICRO CRYSTAL SWITZERLAND

RV-3129-C3
Development Board

DEVELOPMENT BOARD



RV-3129-C3

Temperature Compensated Real Time Clock / Calendar Module

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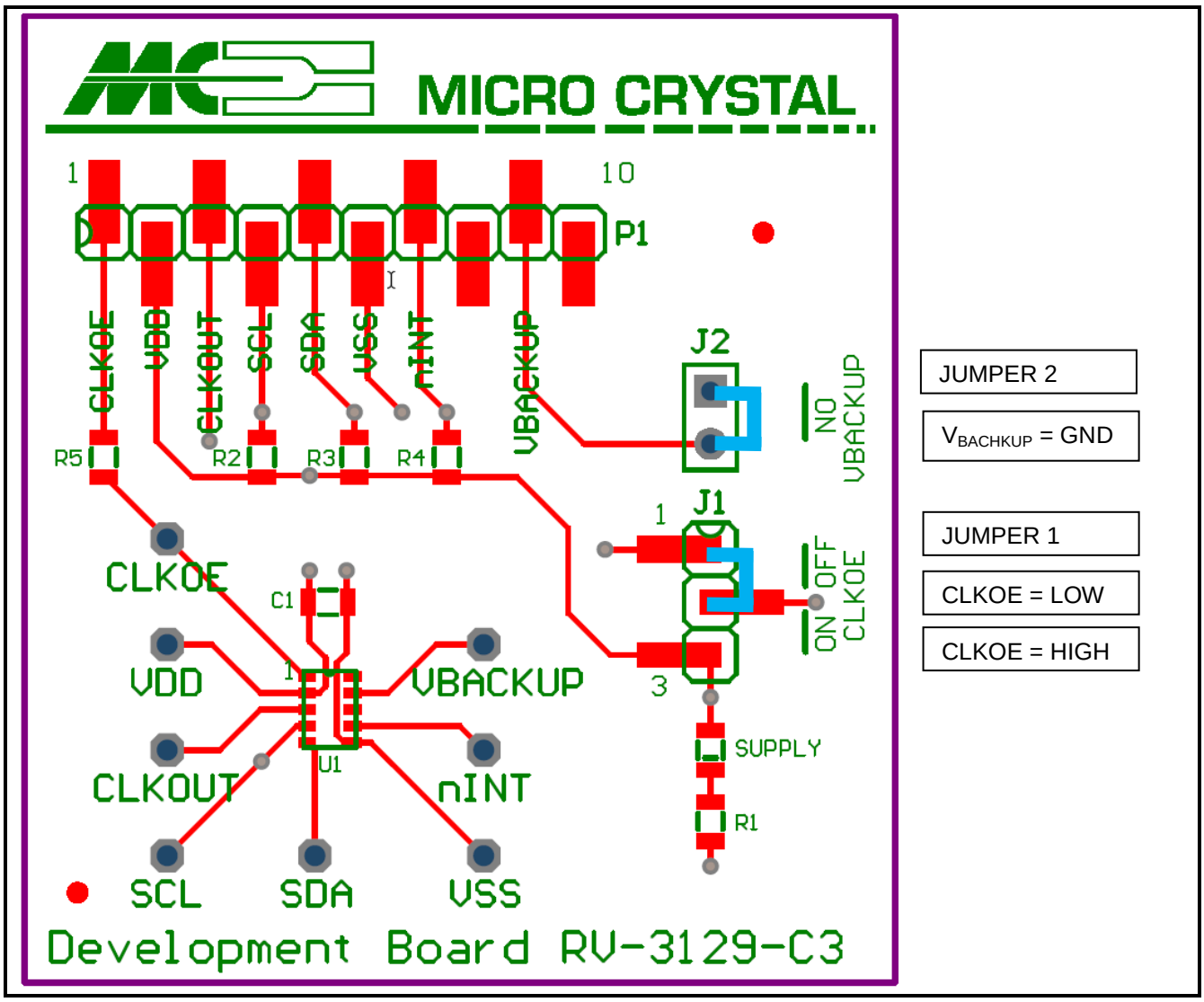
RV-3129-C3

The RV-3129-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
LED	green	Supply, current consumption of the LED has to be considered
R2	10 kΩ	Pull-up resistor SCL to V_{DD}
R3	10 kΩ	Pull-up resistor SDA to V_{DD}
R4	10 kΩ	Pull-up resistor INT to V_{DD}
R5	10 kΩ	Protection resistor to prevent short-circuit between external CLKOE signal and Jumper.

DEVELOPMENT BOARD



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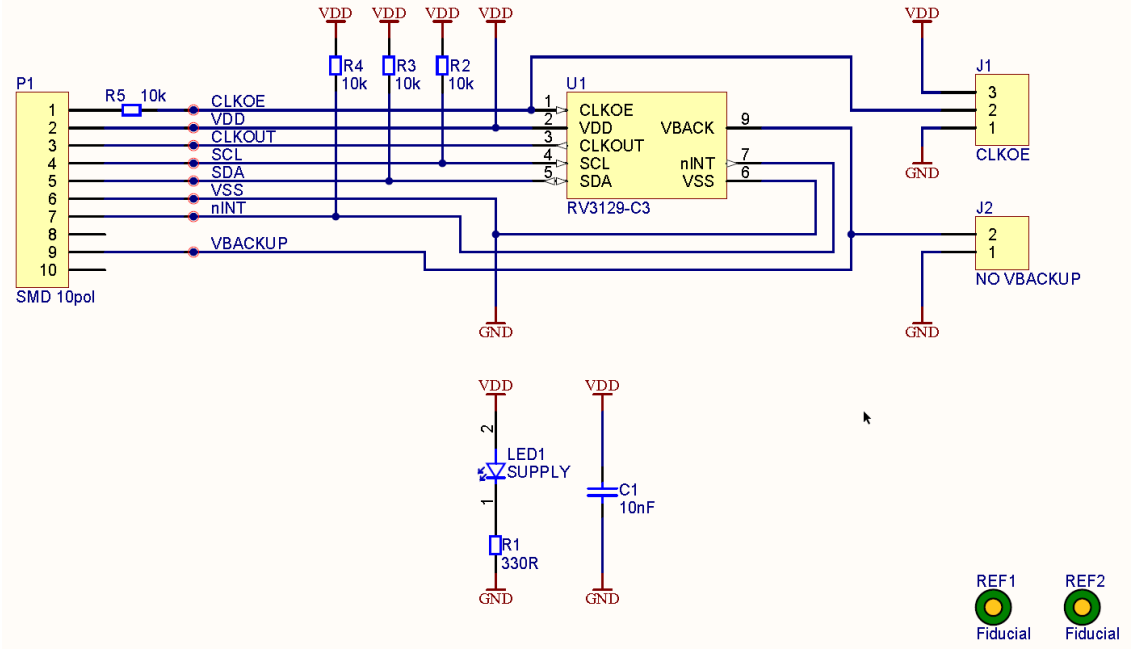
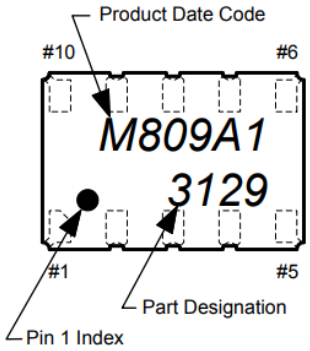
SCHEMATICS



PINOUT RV-3129-C3



# 1	CLKOE	# 10	N.C.
# 2	V_{DD}	# 9	V_{BACKU}.
# 3	CLKOUT	# 8	N.C.
# 4	SCL	# 7	$\overline{INT}$
# 5	SDA	# 6	V_{SS}

PIN DESCRIPTION

Symbol	Pin #	Description
CLKOE	1	CLKOUT enable/disable pin; enable is active HIGH; tie to GND when not using CLKOUT
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. CLKOUT or $\overline{INT}$ function can be selected.(Control_1; bit7; CLK/INT) CLKOUT output push-pull / $\overline{INT}$ function open-drain requiring pull-up resistor
SCL	4	Serial Clock Input pin; requires pull-up resistor
SDA	5	Serial Data Input-Output pin; open-drain; requires pull-up resistor
V_{SS}	6	Ground
$\overline{INT}$	7	Interrupt Output pin; open-drain; active LOW
NC	8	Not Connected; internally used for test, do not connect other signals then ground.
V_{BACKUP}	9	Backup Supply Voltage; tie to GND when not using a backup supply voltage.
NC	10	Not Connected; internally used for test, do not connect other signals then ground.

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