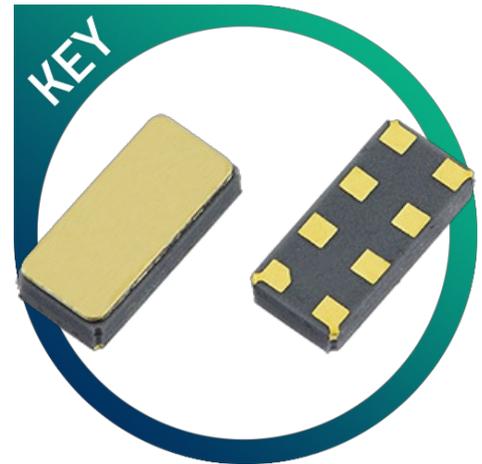


RV4162C7

RTC I²C bus

- Ultra-miniature ceramic SMD RTC module
- Compliant with I²C-Bus interface (400kHz)
- AEC-Q200 compliant option
- Built-in crystal for adjustment-free operation
- Programmable alarm, timer and interrupt

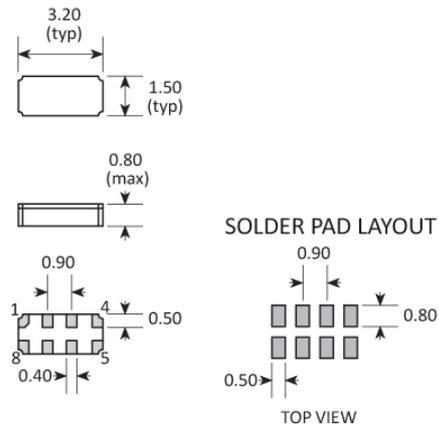


CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency tolerance	
Any	
±10ppm	A
±20ppm	B
Qualification	
Any	
Commercial	
AEC-Q200 (Automotive)	A

SPECIFICATIONS

Frequencies (selectable)	32.768kHz down to 1Hz
Dimensions	3.2 x 1.5 x 0.8mm
Turnover temperature (T ₀)	+25°C ±5°C
Frequency / temp coefficient	-0.035ppm/°C ² ±10%
Operating temperature range	-40 to +85°C
Storage temperature range	-55 to +125°C
Supply voltage (V _{DD})	I ² C bus active 1.3 ~ 4.4V Time-keeping mode 1.0 ~ 4.4V
Supply current (during access)	35µA typ (f _{scl} =400kHz, V _{DD} =3V) 20µA typ (f _{scl} =400kHz, V _{DD} =2V)
Supply current (time-keeping)	350/500nA typ/max (f _{scl} =0Hz, V _{DD} =3V) 270/400nA typ/max (f _{scl} =0Hz, V _{DD} =1V)
Ageing	±3ppm max first year
Shock and vibration resistance	±5ppm, 5,000g, 0.3ms, ½ sine ±5ppm, 20g, 10.0 ~ 2,000Hz
Soldering condition	Reflow, 260°C, 20 sec max

PACKAGE DRAWING


PAD	CONNECTION	PAD	CONNECTION
1	Serial data (SDA)	5	Supply voltage (VDD)
2	Frequency output (CLKOUT)	6	Interrupt output (INT)
3	Ground (VSS)	7	Not connected
4	Not connected	8	Serial clock input (SCL)

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the RV4162C7 please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

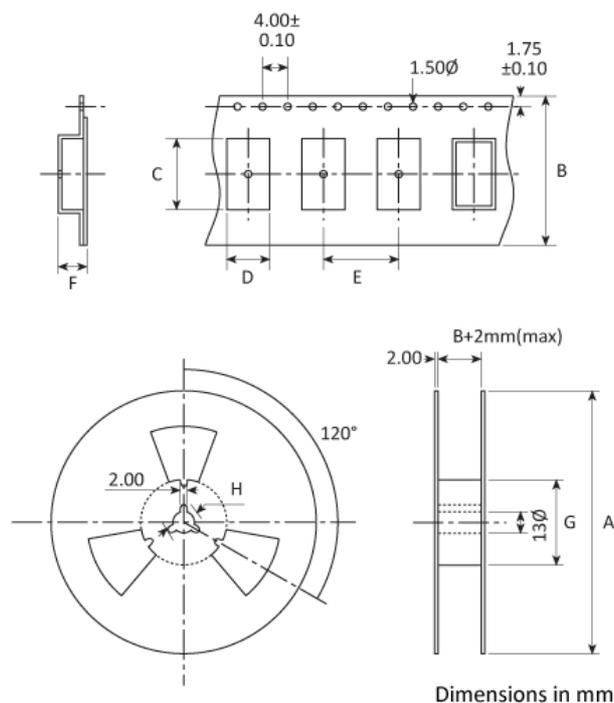
Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

TECHNICAL RESOURCES

RV-4162-C7_App-Manual.pdf
 RV-4162-C7_Development-Board.pdf

TAPE & REEL SPECIFICATION



A:178* / B:12 / C:3.5 / D:1.8 / E:4 / F:1 / G:80 / H:21

*Larger reel size available. Please ask for details

HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to <500V)



Moisture Sensitivity Level (MSL): 1 (or not applicable)

CONSTRUCTION

Ceramic package, gold flashed pads

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)



RoHS 2 compliant with no exemptions. [See our declaration](#)



REACH compliant. [See our statement](#)



Free of conflict minerals. [See our declaration](#)



Free of Halogens. [See our declaration](#)



Free of Ozone-depleting substances. [See our declaration](#)

SUPPLY PARTNER

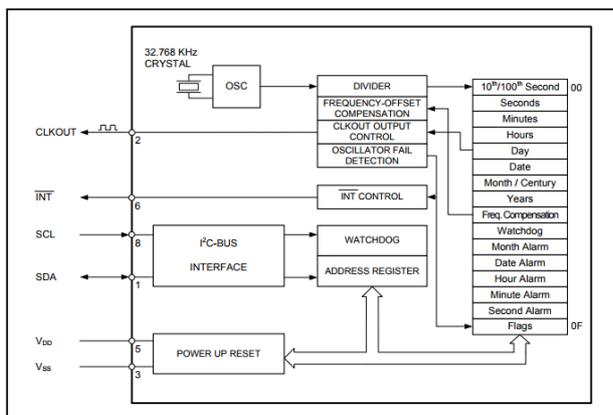


The RV4162C7 is manufactured by Micro Crystal and stocked and supplied by Golledge.

OTHER INFORMATION

An evaluation/development board for the RV4162C7 is also available on request. Please contact our expert advisers at sales@golledge.com for more information.

BLOCK DIAGRAM



OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).

To take advantage of our highly praised service get in touch with us today.