NUCLEO-WB55.Nucleo

MB1355

Table of contents

Sheet 1: Project overview (this page)
Sheet 2: STM32WB55RG microcontroller I/Os
Sheet 3: STM32WB55RG RF part
Sheet 4: Arduino/Morphos extension connectors
Sheet 5: Power Management
Sheet 6: ST-Link/V2-1

Legend

This Board is a NUCLEO68. It is dedicated of STM32WB55RG evaluation.
The package embedded is : VFQFPN68_8mmx8mmx0.1mm.

Manufacturing requirements :
Solder_Mask : Both Sides, Color : white
Silkscreen : Both Sides, Color : light blue or blue
PCB : 4 Layers (see Stack-up Description On Mechanical page)

Text/Logo to be added to silkscreen.
Top

<table>
<thead>
<tr>
<th>Logo_ST</th>
<th>Logo_Nucleo</th>
<th>Nucleo_white</th>
<th>Logo_STM32</th>
<th>Sticker_PIC_ID</th>
</tr>
</thead>
</table>

Bottom

<table>
<thead>
<tr>
<th>Logo_Nucleo</th>
<th>Logo_ESD</th>
<th>Logo_CE</th>
<th>Logo_ROHS</th>
<th>Sticker_Area</th>
<th>Sticker_BrdRef</th>
<th>Sticker_CPU_ID</th>
</tr>
</thead>
</table>

Open Platform License Agreement

The Open Platform License Agreement ("Agreement") is a binding legal contract between you ("You") and STMicroelectronics International N.V. ("ST"), a company incorporated under the laws of the Netherlands acting for the purpose of this Agreement through its Swiss branch 39, Chemin du Champ des Filles, 1228 Plan-les-Ouates, Geneva, Switzerland.

By using the enclosed reference designs, schematics, PC board layouts, and documentation, in hardcopy or CAD tool file format (collectively, the “Reference Material”), You are agreeing to be bound by the terms and conditions of this Agreement. Do not use the Reference Material until You have read and agreed to this Agreement terms and conditions. The use of the Reference Material automatically implies the acceptance of the Agreement terms and conditions.

The complete Open Platform License Agreement can be found on www.st.com/opla.
RF switch

Band Pass Filter

LQG15HS2N7S02

50 Ohms Matching Network

(Lawo values will be updated after evaluation)

GRM1555C1H1R2WA01D

C38
Not Fitted

C39
Not Fitted

C36
Not Fitted

C37
1.2pF

GND

C35
10nF

GND

C34
100pF

GND

C33
100nF

GND

JP4
Jumper 2.54mm

JP4(1-2)

U1A

RF1

VDDRF

VSSRF

STM32WB55RG RF part

Title:

Size:

Reference:

Sheet:

of

A4

Revision:

Project:

NUCLEO-WB55.Nucleo

MB1355C

02

20-Dec-2018

[No Variations]