

Intellimatch Cross Reference Features and Notes

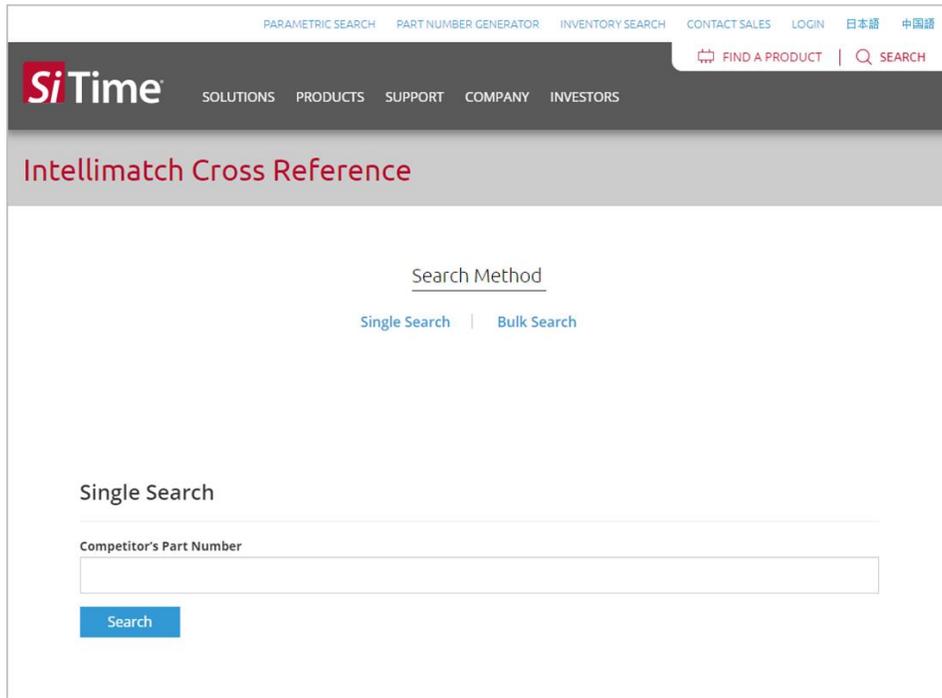
SiTime's [Intellimatch cross reference](#) provides a quick and automated way to find equivalent SiTime oscillators. Simply input one or more competitor oscillator part numbers using either the single or bulk search mode.

Single Search

To cross a single part number, type or paste the part number into the *Competitor's Part Number* field and hit the *Search* button to initiate the search (see [Figure 1](#)). After the search is completed, one or more of the following results will appear.

Result Messages

- 1. SiTime part number with no additional notes**
This indicates the SiTime part number is a full pin-to-pin and functional equivalent for a competitor's part number.
- 2. SiTime part number(s) with note stating "Best performance"**
This indicates the SiTime part number is a full pin-to-pin and functional equivalent for a competitor's part number but an alternative is proposed to offer a better performing device or one which could be more cost effective and still fit the application.
- 3. SiTime part number(s) with note stating "Please check ..." (any parameter could be in place of ..., for example VDD, package size, etc.)**
This indicates the SiTime device is not a full pin-to-pin and/or functional equivalent for a competitor's device. Check the parameter(s) mentioned to understand if the difference between the devices is acceptable for an application. The "Best performance" message may still appear denoting there is a better performing device within the parts proposed.
- 4. Messages stating "Invalid part number"**
This indicates that the input part number is either not supported by the tool or doesn't match the datasheet part number scheme. Verify the part number against the datasheet part number scheme and make corrections as needed. If the resulting message continues to show "Invalid part number", contact [SiTime support](#) for assistance. A corresponding *contact* button will appear on the page.
- 5. Message stating "No result"**
This indicates that the input part number cannot be crossed by the tool. Contact [SiTime support](#) for assistance.



The screenshot shows the SiTime website's Intellimatch Cross Reference page. At the top, there is a navigation bar with links for PARAMETRIC SEARCH, PART NUMBER GENERATOR, INVENTORY SEARCH, CONTACT SALES, LOGIN, 日本語, and 中国語. Below this is a dark header with the SiTime logo and links for SOLUTIONS, PRODUCTS, SUPPORT, COMPANY, and INVESTORS. A search bar with a magnifying glass icon and the text 'FIND A PRODUCT | SEARCH' is also present. The main content area is titled 'Intellimatch Cross Reference' and features a 'Search Method' section with two options: 'Single Search' (selected) and 'Bulk Search'. Below this is a 'Single Search' section with a text input field labeled 'Competitor's Part Number' and a blue 'Search' button.

Figure 1. Single search mode

Bulk Search

Bulk search mode (see [Figure 2](#)) provides an efficient way to cross multiple part numbers. Begin by clicking *Bulk Search* under Search Method near the top. Input the competitor part numbers by uploading an XLSX file (see [Figure 3](#) for the file example). The part numbers need to be organized into a single column and the starting cell of that column has to be specified.

The results are returned in an XLSX file with an added column(s) for SiTime part numbers. The file will also contain a column(s) for notes if any are generated (see [Figure 4](#)). For a description of the notes, see the Results Messages section on the previous page. The number of added columns will vary for different input part numbers as they may have a different number of equivalent SiTime parts. For non-crossed part numbers, a corresponding message will be added.

Bulk search mode is available only to logged-in [registered](#) users of the SiTime website.

Important Note: Bulk search does not accept files with more than 200 part numbers. Files with more than 200 line items must be divided and processed separately.

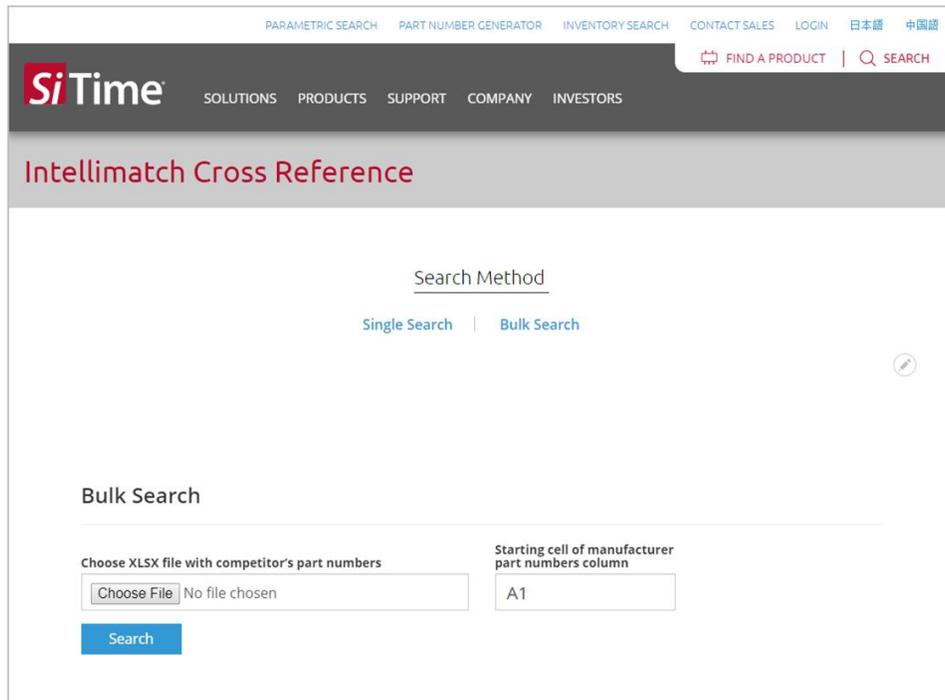


Figure 2. Bulk search mode

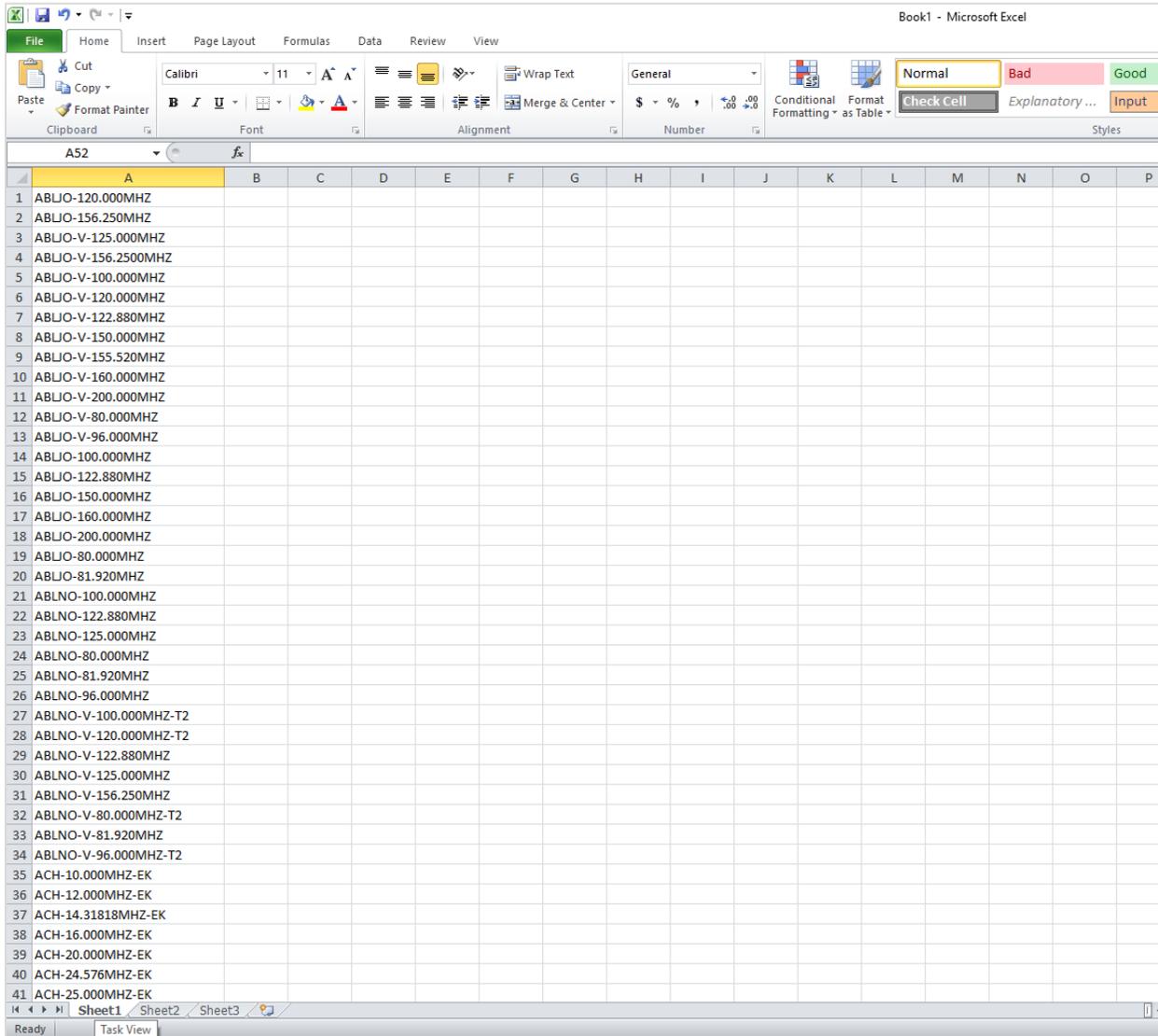


Figure 3. Bulk search input file example

A	B	C	D
1 ABLJO-120.000MHZ	SIT8209AI-82-33E-120.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-120.000000 Best performance.
2 ABLJO-156.2500MHZ	SIT8209AI-82-33E-156.250000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-156.250000 Best performance.
3 ABLJO-V-125.9000MHZ	SIT3809AI-D2-33NB125.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB125.000000 Please check pull range.
4 ABLJO-V-156.2500MHZ	SIT3809AI-D2-33NB156.250000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB156.250000 Please check pull range.
5 ABLJO-V-100.000MHZ	SIT3809AI-D2-33NB100.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB100.000000 Please check pull range.
6 ABLJO-V-120.000MHZ	SIT3809AI-D2-33NB120.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB120.000000 Please check pull range.
7 ABLJO-V-122.8800MHZ	SIT3809AI-D2-33NB122.880000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB122.880000 Please check pull range.
8 ABLJO-V-150.000MHZ	SIT3809AI-D2-33NB150.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB150.000000 Please check pull range.
9 ABLJO-V-155.5200MHZ	SIT3809AI-D2-33NB155.520000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB155.520000 Please check pull range.
10 ABLJO-V-160.000MHZ	SIT3809AI-D2-33NB160.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB160.000000 Please check pull range.
11 ABLJO-V-200.000MHZ	SIT3809AI-D2-33NB200.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-D2-33EB200.000000 Please check pull range.
12 ABLJO-V-80.000MHZ	SIT3808AI-D2-33EB80.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3808AI-D2-33EB80.000000 Please check pull range.
13 ABLJO-V-80.000MHZ	SIT3808AI-D2-33EB80.000000	Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3808AI-D2-33EB80.000000 Please check pull range.
14 ABLJO-100.000MHZ	SIT8209AI-82-33E-100.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-100.000000 Best performance.
15 ABLJO-122.8800MHZ	SIT8209AI-82-33E-122.880000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-122.880000 Best performance.
16 ABLJO-150.000MHZ	SIT8209AI-82-33E-150.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-150.000000 Best performance.
17 ABLJO-160.000MHZ	SIT8209AI-82-33E-160.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-160.000000 Best performance.
18 ABLJO-200.000MHZ	SIT8209AI-82-33E-200.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-200.000000 Best performance.
19 ABLJO-80.000MHZ	SIT8208AI-82-33E-80.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8208AI-82-33S-80.000000 Best performance.
20 ABLJO-81.9200MHZ	SIT8209AI-82-33E-81.920000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-81.920000 Best performance.
21 ABLNO-100.000MHZ	SIT8209AI-82-33E-100.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-100.000000 Best performance.
22 ABLNO-122.8800MHZ	SIT8209AI-82-33E-122.880000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-122.880000 Best performance.
23 ABLNO-125.000MHZ	SIT8209AI-82-33E-125.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-125.000000 Best performance.
24 ABLNO-80.000MHZ	SIT8208AI-82-33E-80.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8208AI-82-33S-80.000000 Best performance.
25 ABLNO-81.9200MHZ	SIT8209AI-82-33E-81.920000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-81.920000 Best performance.
26 ABLNO-96.000MHZ	SIT8209AI-82-33E-96.000000	Best performance. Please check frequency stability. Smaller package. Please check pinout. Please check feature options	SIT8209AI-82-33S-96.000000 Best performance.
27 ABLNO-V-100.000MHZ-T2	SIT3809AI-DF-33NE100.000000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-DF-33EE100.000000 Please check frequency stability.
28 ABLNO-V-120.000MHZ-T2	SIT3809AI-DF-33NE120.000000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-DF-33EE120.000000 Please check frequency stability.
29 ABLNO-V-122.8800MHZ	SIT3809AI-DF-33NE122.880000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-DF-33EE122.880000 Please check frequency stability.
30 ABLNO-V-125.000MHZ	SIT3809AI-DF-33NE125.000000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-DF-33EE125.000000 Please check frequency stability.
31 ABLNO-V-156.2500MHZ	SIT3809AI-DF-33NE156.250000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-DF-33EE156.250000 Please check frequency stability.
32 ABLNO-V-80.000MHZ-T2	SIT3808AI-DF-33NE80.000000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3808AI-DF-33EE80.000000 Please check frequency stability.
33 ABLNO-V-81.9200MHZ	SIT3809AI-DF-33NE81.920000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-DF-33EE81.920000 Please check frequency stability.
34 ABLNO-V-96.000MHZ-T2	SIT3809AI-DF-33NE96.000000	Please check frequency stability. Please check pull range. Smaller package. Please check pinout. Please check feature options	SIT3809AI-DF-33EE96.000000 Please check frequency stability.
35 ACH-10.000MHZ-EK	Invalid part number		
36 ACH-12.000MHZ-EK	Invalid part number		
37 ACH-14.31818MHZ-EK	Invalid part number		
38 ACH-16.000MHZ-EK	Invalid part number		
39 ACH-20.000MHZ-EK	Invalid part number		
40 ACH-24.576MHZ-EK	Invalid part number		

Figure 4. Bulk search output file example

SiTime’s online Intellimatch Cross Reference is located at <https://www.sitime.com/intellimatch-cross-reference>.