SimSurfing
IC-Timing Devise Search Tool
Operation Manual

December 2025

Murata Manufacturing Co., Ltd

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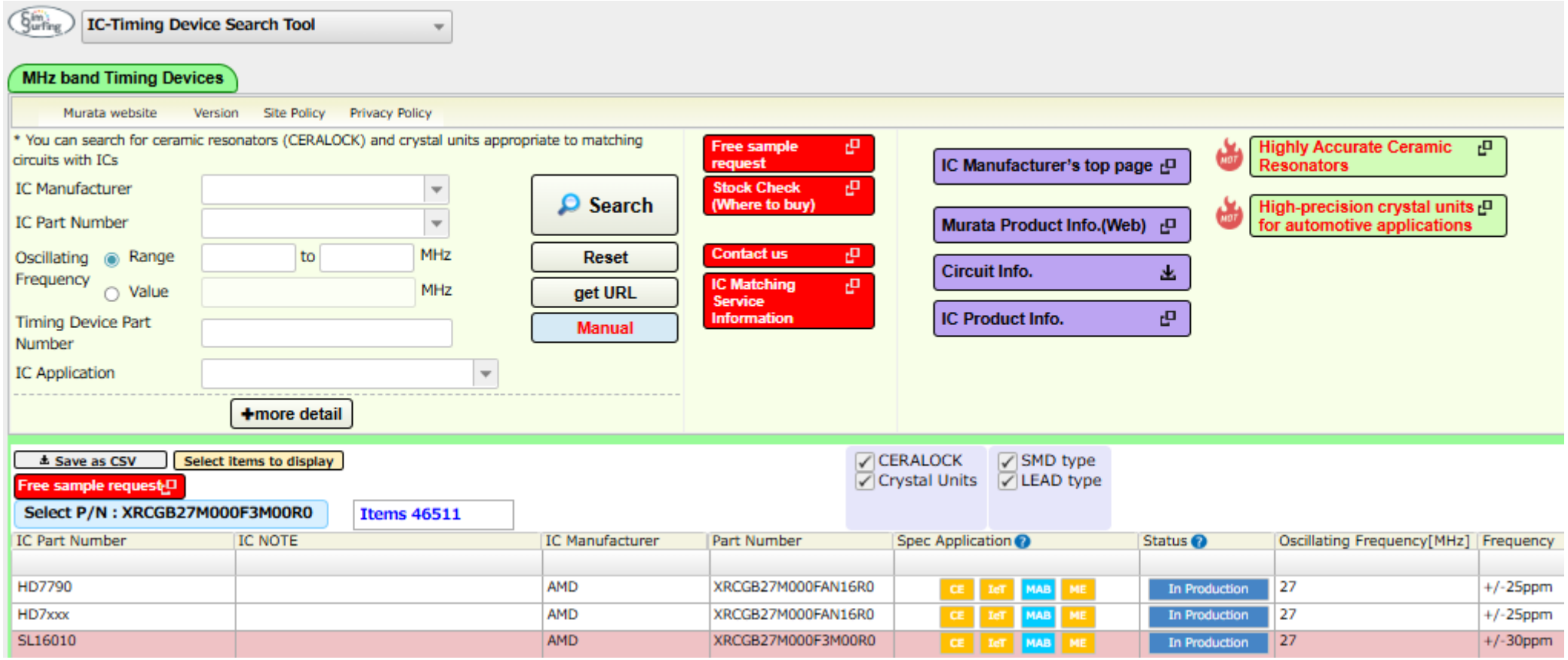
1. About This Tool

1-1. Overview

- The IC-Timing Devices Search tool (hereinafter, “this tool”) performs a search operation to help you determine the part number of the Murata timing device that is most suitable for your IC and access information about the recommended circuit constant setting.



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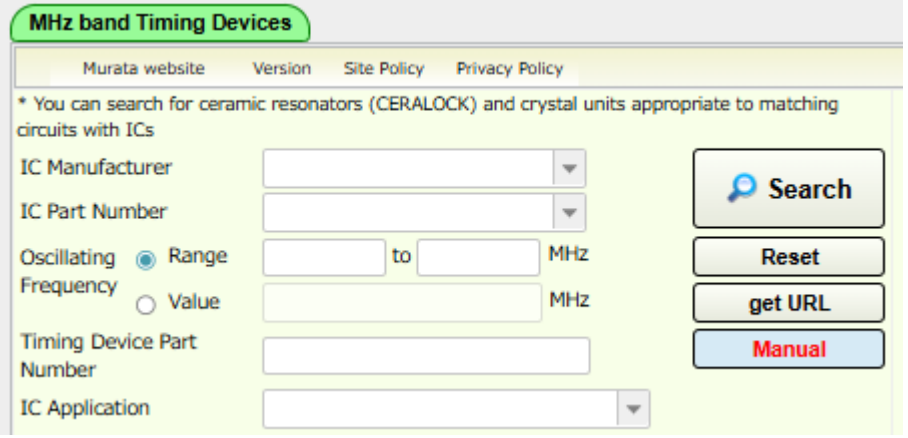
1. About This Tool

1-2. Main functions

- This tool helps you to search for the optimal timing device part numbers and circuit constants for ICs using the following search keys or a combination of them.

<Search keys>
- IC manufacturer
- IC part number
- Timing device oscillation frequency
- Murata timing device part number



- You can check circuit matching data for the combination of selected IC and timing device part numbers.

- You can check detailed specifications of the selected timing device part numbers.

- You can move to the selected IC manufacturer's website to check information (with some exceptions).

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1. About This Tool

1-3. Target product

The series part numbers of timing devices searchable with this tool are as follows.

Type		Series	For consumer	For automotive	Frequency range
CERALOCK	SMD	CSTCR_G	✓	✓	4.00 to 7.99 MHz
		CSTNR_G	✓	✓	
		CSTNE_G	✓	✓	8.00 to 13.99MHz
		CSTNE_V	✓	✓	14.00 to 20.00MHz
	Lead	CSTLS_G	✓	✕	3.40 to 10.00 MHz
		CSTLS_X	✓	✕	16.00 to 70.00MHz
crystal units	SMD	XRCGB	✓	✓	16.000 to 50.000MHz
		XRCGE	✕	✓	16.000 to 50.000MHz
		XRCGA	✕	✓	16.000 to 50.000 MHz

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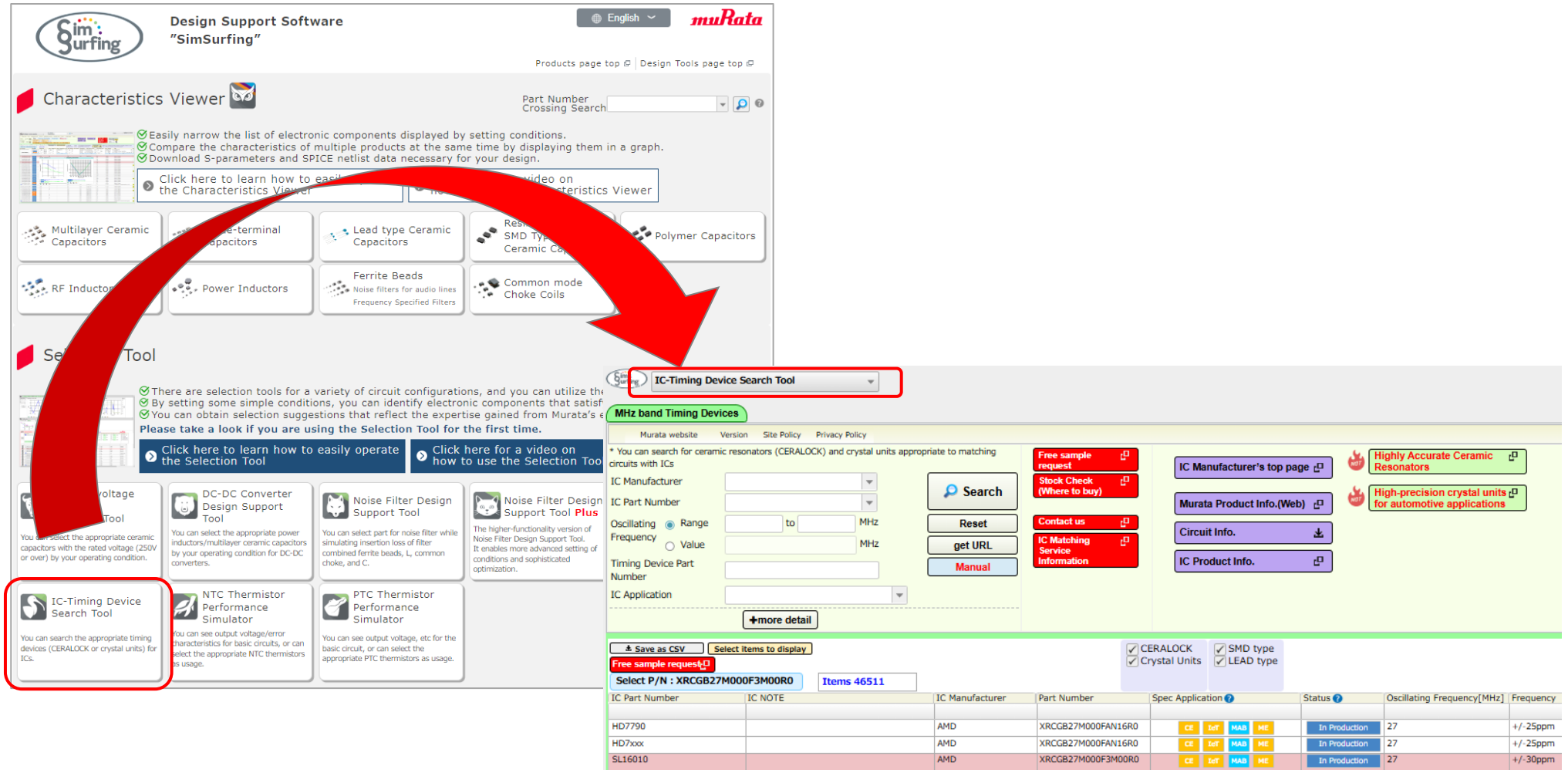
2. Operation Guide

2-1. Starting this tool

- When you click the [IC-Timing Devise Search Tool] on the top page of SimSurfing, the screen of this tool will be displayed.



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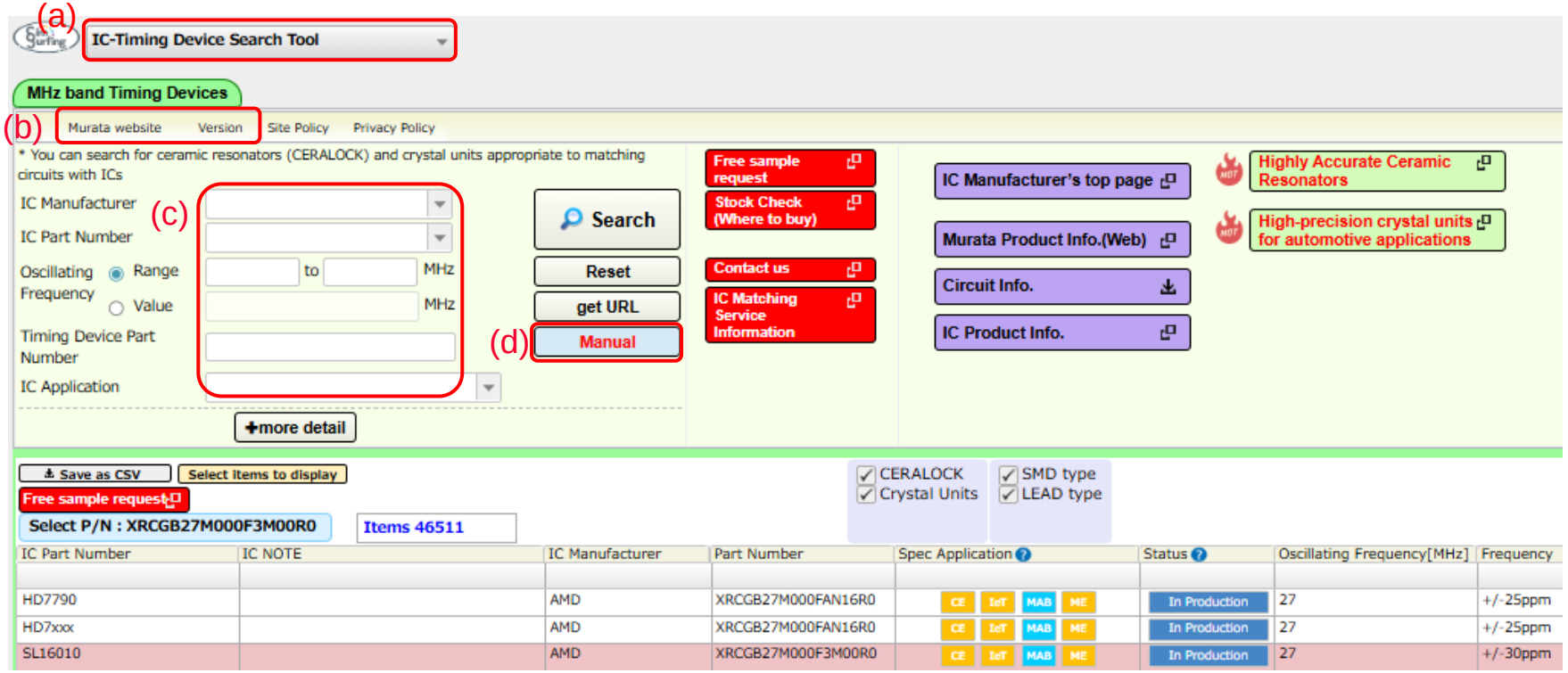
2. Operation Guide

2-2. Screen layout (1/4)



(a) Top Screen Switch:
A button to return to the SimSurfing top screen.

(b) Menu bar :
"Murata website" : Web link to our company website.
"Version" : Version of the SimSurfing and the stored data.

(c) Search Condition Input :
Enter the condition to search by combining the IC product name and the timing device part number.
※For details on setting the search conditions, please refer to "2-3. Basic Operations" (P.11).

(d) Manual :
Displays the operation manual (this document).

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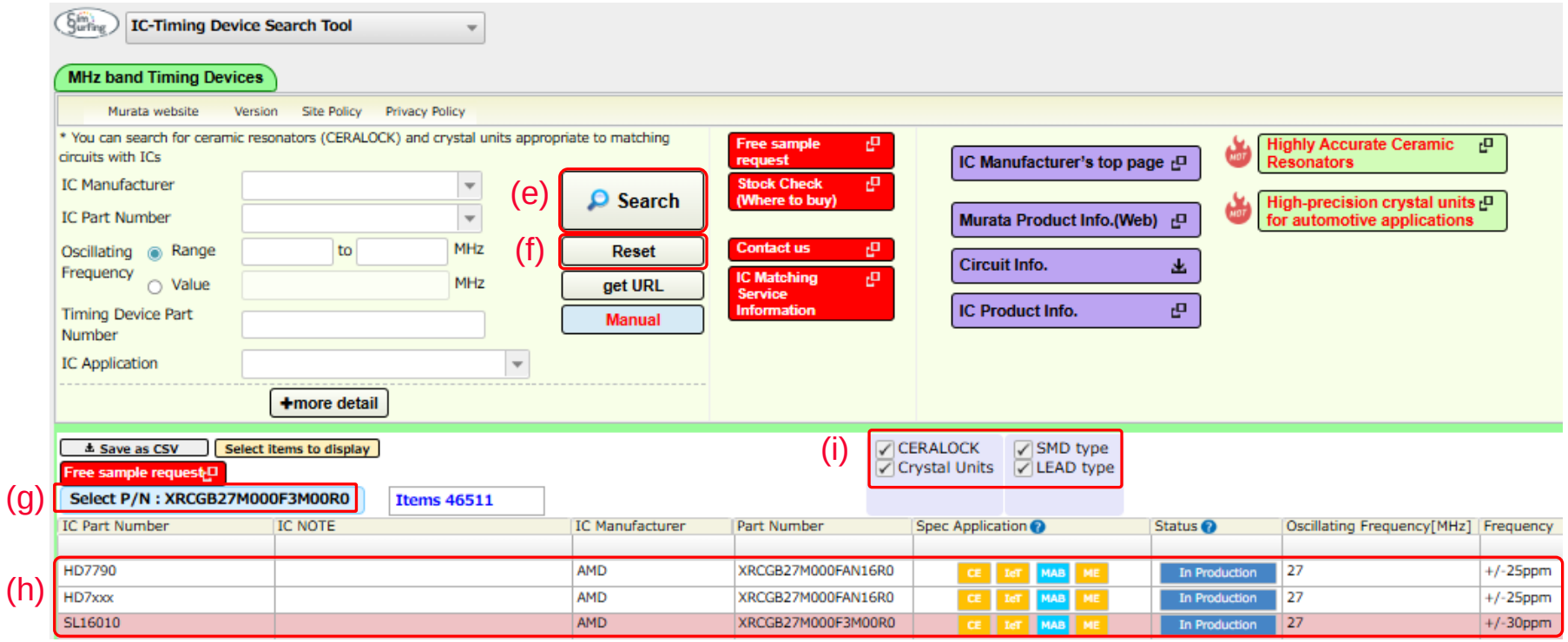
2. Operation Guide

2-2. Screen layout (2/4)



(e) Search :
Click the button to search for combinations of IC product names and our timing device part numbers based on specified search conditions, and display list (h).

(f) Reset :
Click the button to clear the search results and search keys.

(g) Select P/N :
Displays the timing device part number selected in list (h).

(h) List display of IC part number and Murata timing device part number combinations :
The list displays the IC part number and Murata timing device part number combinations determined by the search.

(i) Filter Function:
Toggle the checkboxes to refine list (h).

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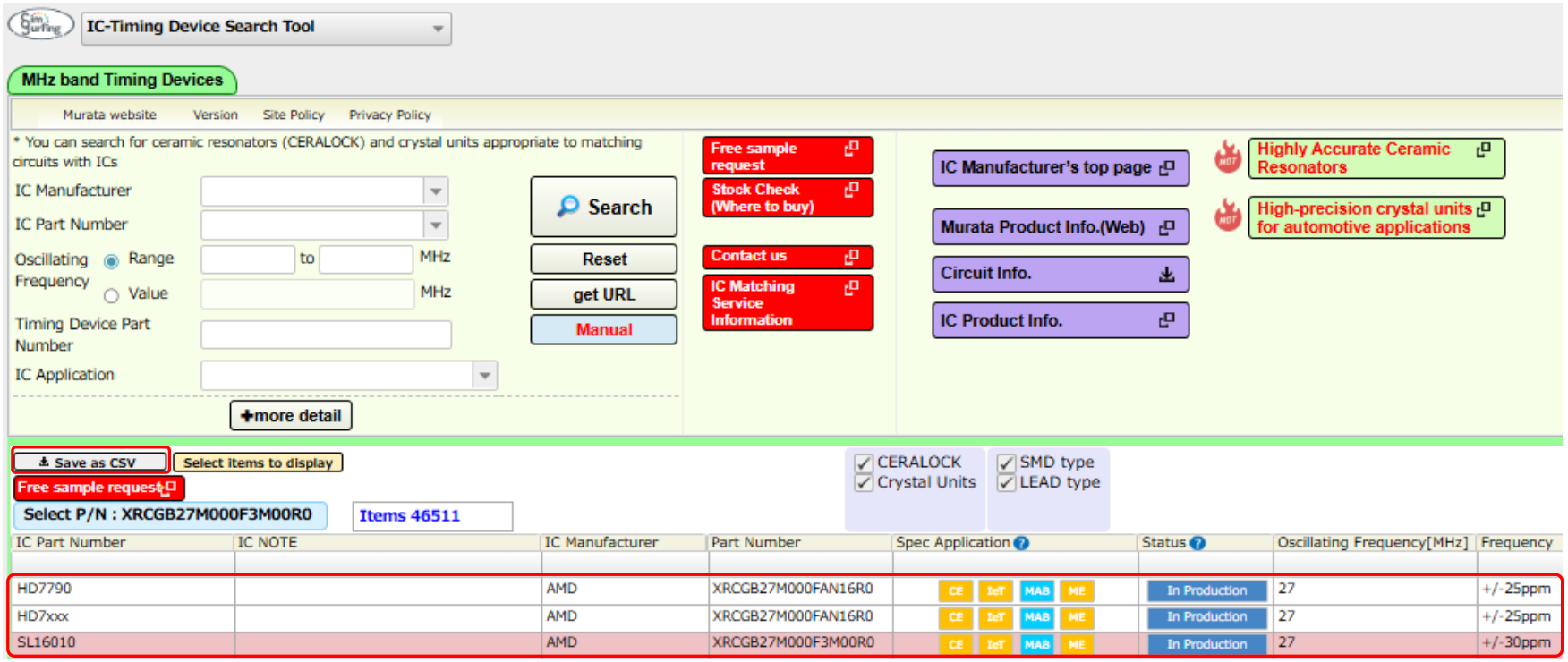
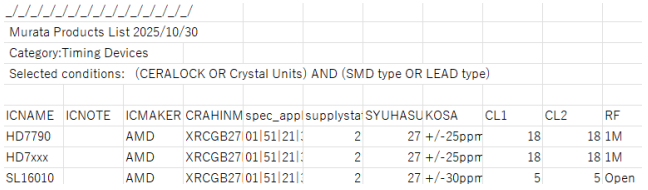
2. Operation Guide

2-2. Screen layout (3/4)



(j) Save as CSV :

By clicking the button, you can save the data displayed in the list as a CSV file.



Murata Products List 2025/10/30

Category:Timing Devices

Selected conditions: (CERALOCK OR Crystal Units) AND (SMD type OR LEAD type)

ICNAME	ICNOTE	ICMAKER	CRAHINM	spec_appl	supplysta	SYUHASU	KOSA	CL1	CL2	RF
HD7790		AMD	XRCGB27	01|51|21|	2	27	+/-25ppm	18	18	1M
HD7xxx		AMD	XRCGB27	01|51|21|	2	27	+/-25ppm	18	18	1M
SL16010		AMD	XRCGB27	01|51|21|	2	27	+/-30ppm	5	5	Open

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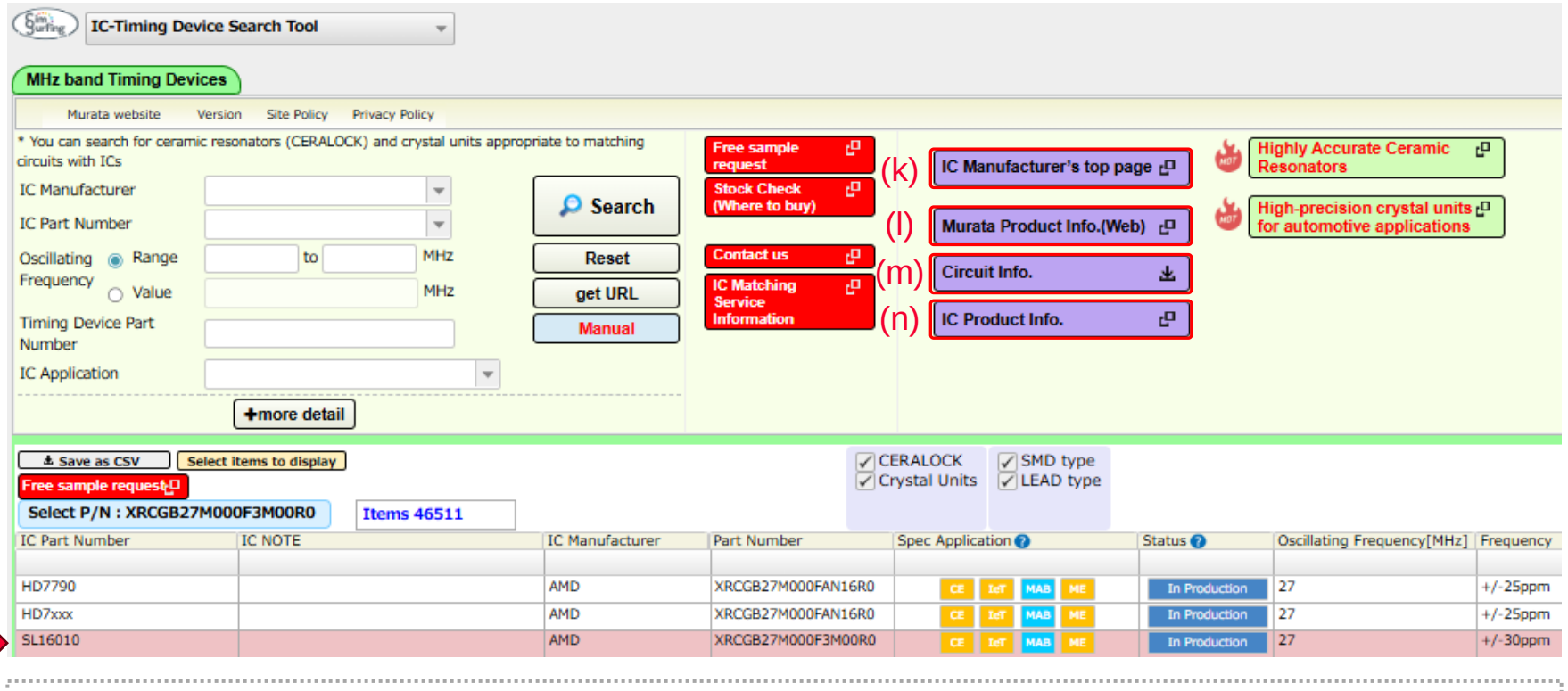
2. Operation Guide

2-2. Screen layout (4/4)



(k) IC Manufacturer's top page :
Opens the manufacturer's website for the IC item selected in the list.

(l) Murata Product Info. (Web) :
You can open the product detail page on our website for the timing device part number selected in the list.

(m) Circuit Info. :
You can open the data file with recommended circuit values for the IC item and timing device part number selected in the list.

(n) IC Product Info. :
Opens the information file for the IC item selected in the list or the IC manufacturer's product information website.

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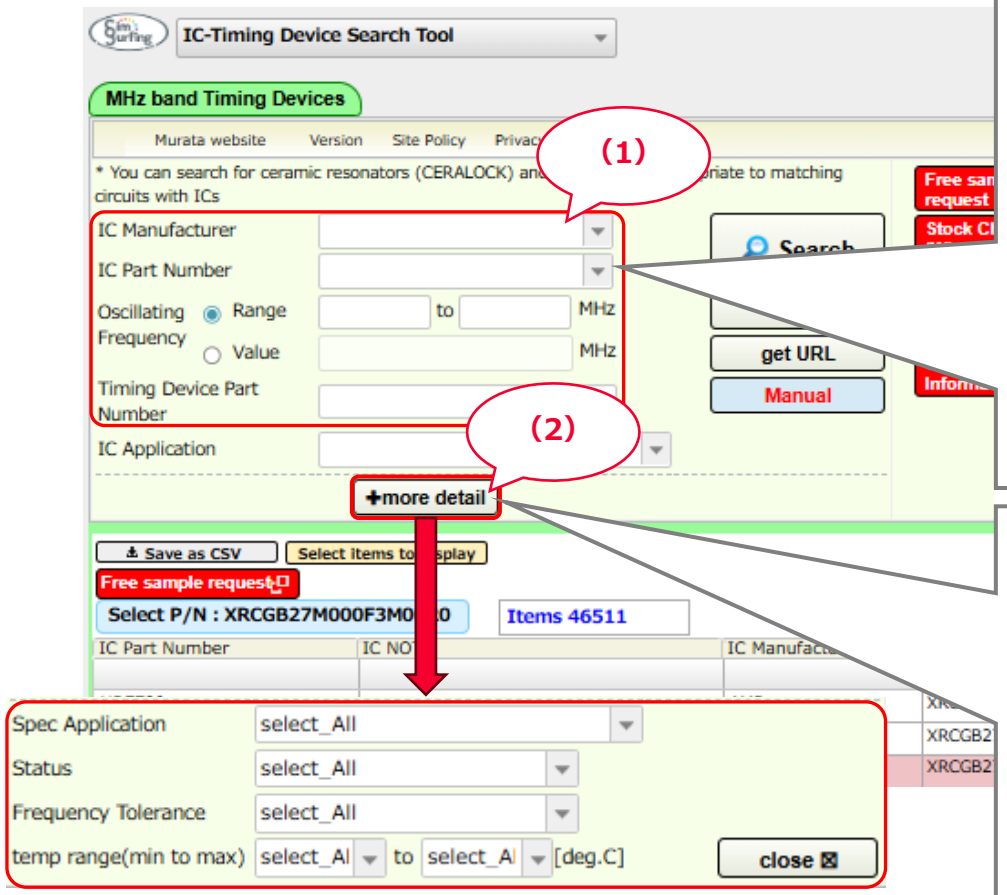
2. Operation Guide

2-3. Basic operations (1/4)

Enter search criteria in (1) Search Condition Input . You can further narrow down the results using (2) more detail button.



<Search conditions>

*You can enter the following items or a combination of item conditions.

- **IC Manufacturer :**
  Select from the dropdown list.
- **IC Part Number :**
  Enter the IC product name you wish to search for. Partial searches for IC product names are also possible.
  Keywords will be converted to uppercase. "μ" (Greek letter mu) is displayed as lowercase "u". If you want to search for "μ", please enter the lowercase "u".
  If you want to search for "U", please enter the uppercase "U"..
- **Oscillating Frequency :**
  You can search by specifying a frequency or frequency range.
  Select using the radio buttons and enter the frequency you wish to search for.
- **Timing Device Part Number :**
  Enter the timing device part number you wish to search for.
  Partial is also possible.

<More detail button>

*If you want to further narrow down the search criteria for (1), please click the + button to open and add detailed criteria.

- **Application :**
  You can narrow down application with checkboxes.
- **Status :**
  You can narrow down production status by selecting In Production / NRND / To be discontinued / Discontinued with checkboxes.
- **Frequency Tolerance :**
  You can narrow down frequency tolerance values with checkboxes.
- **Temp range. (min.) :**
  You can narrow down the minimum operating temperature value with checkboxes.
- **Temp range (max.) :**
  You can narrow down the maximum operating temperature value with checkboxes.

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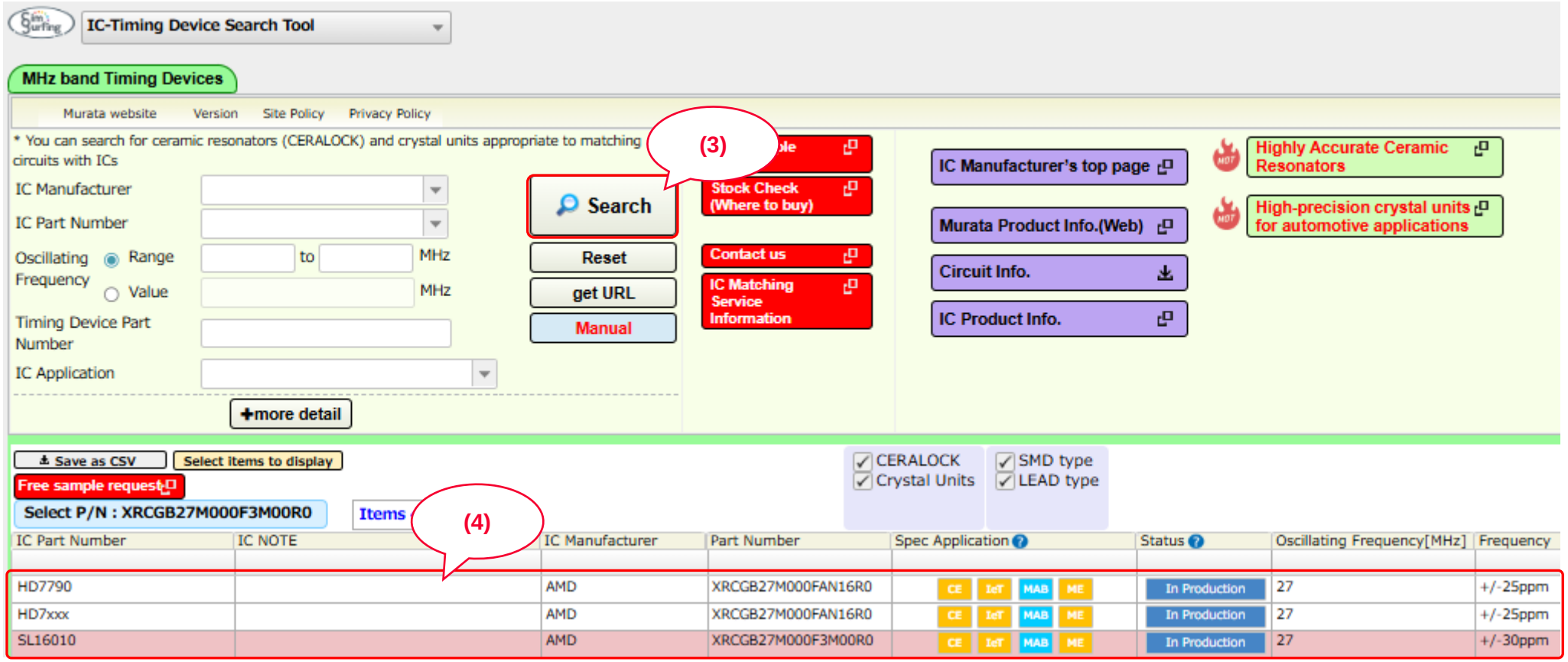
2. Operation Guide

2-3. Basic operations (2/4)

- Clicking the (3) Search button will display the search results in the (4) part number list.



*By adding or modifying search conditions, you can narrow down combinations of IC product names and part numbers for timing devices.

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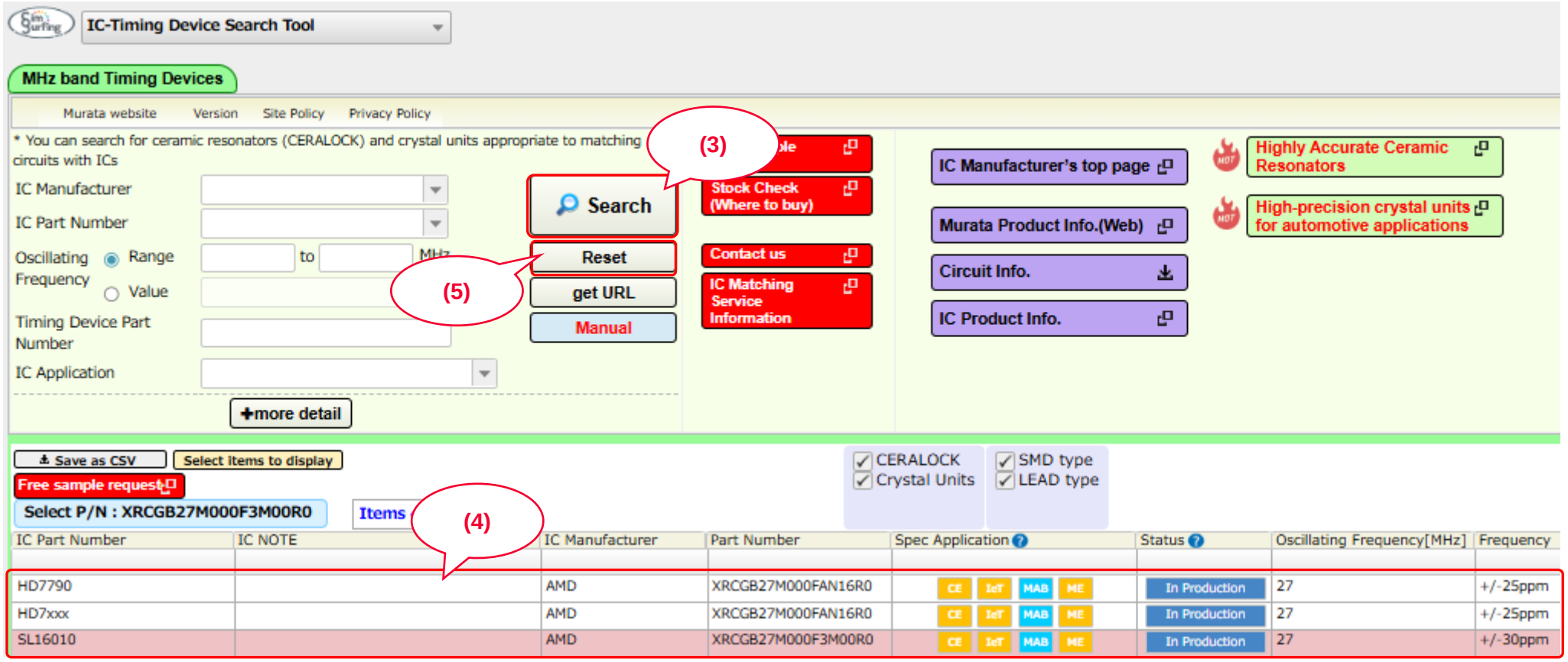
2. Operation Guide

2-3. Basic operations (3/4)

- If the (4) part number list is not displayed, click the (5)Reset button to reset the search conditions, reduce the search criteria, and click the (3) Search button again.



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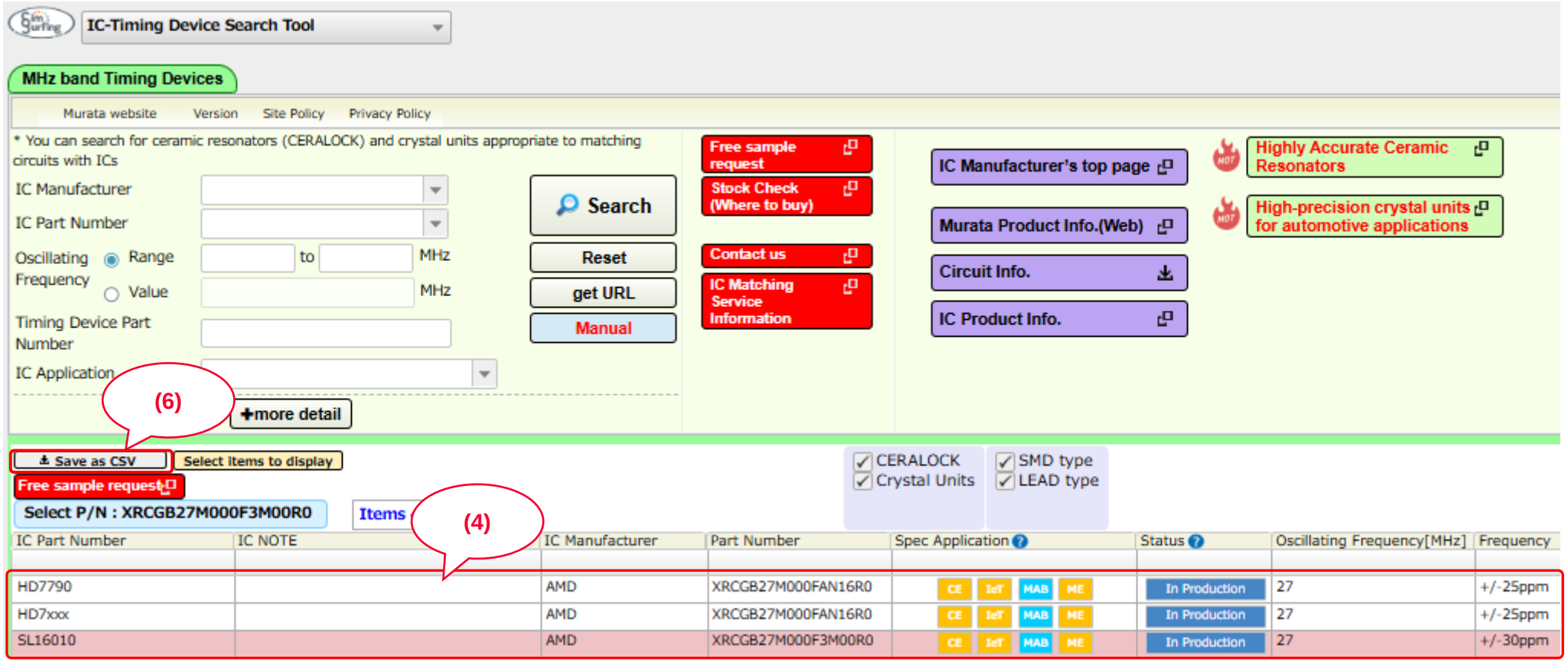
2. Operating Guide

2-3. Basic operations (4/4)

- Clicking the (6) Save as CSV button allows you to save the list of results displayed in the (4) part number list.



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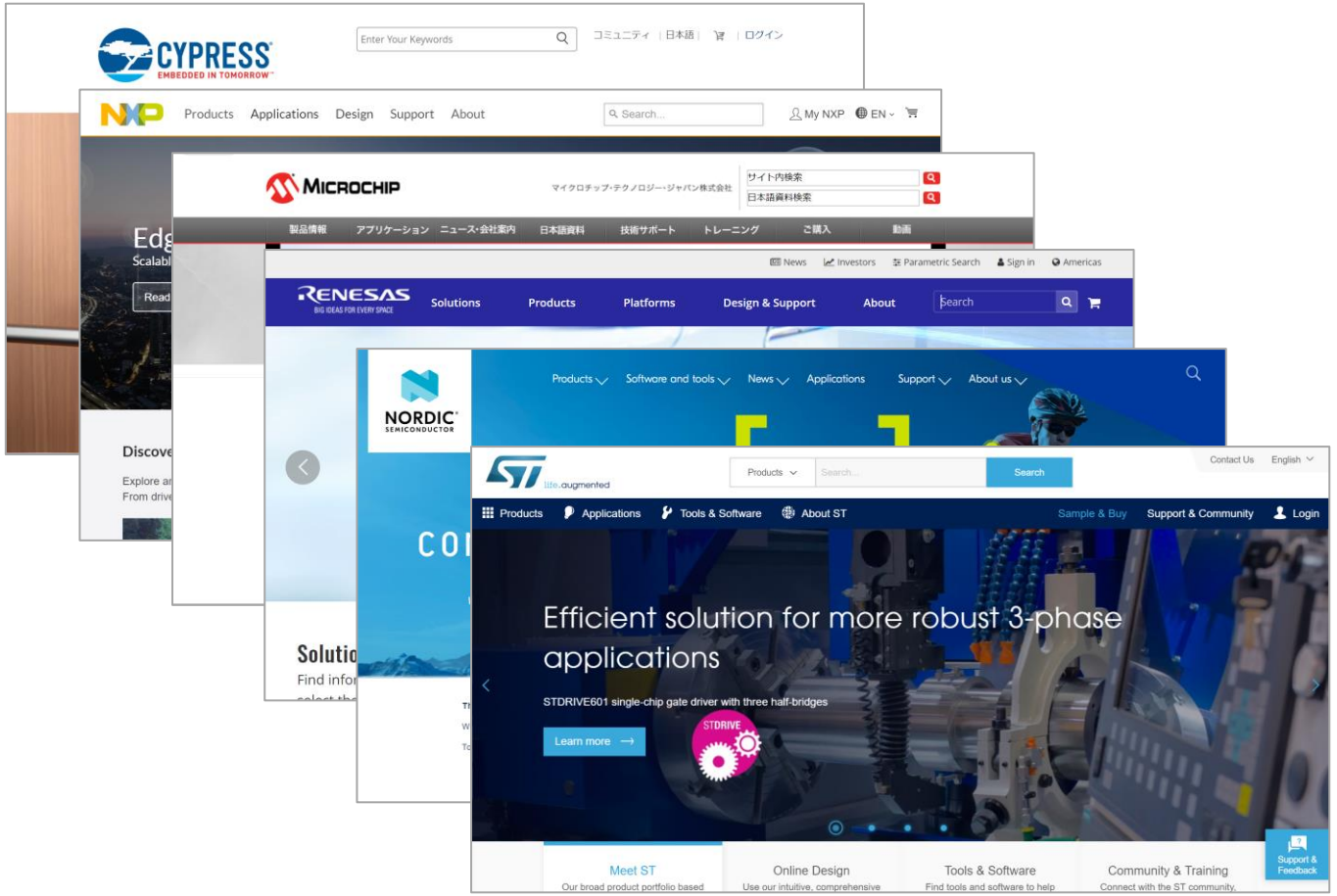
Appendix

Examples of Published Materials (1/3)

- (k) Examples of the linked IC manufacturers' websites



*This is the manufacturer site that has approved mutual linking.

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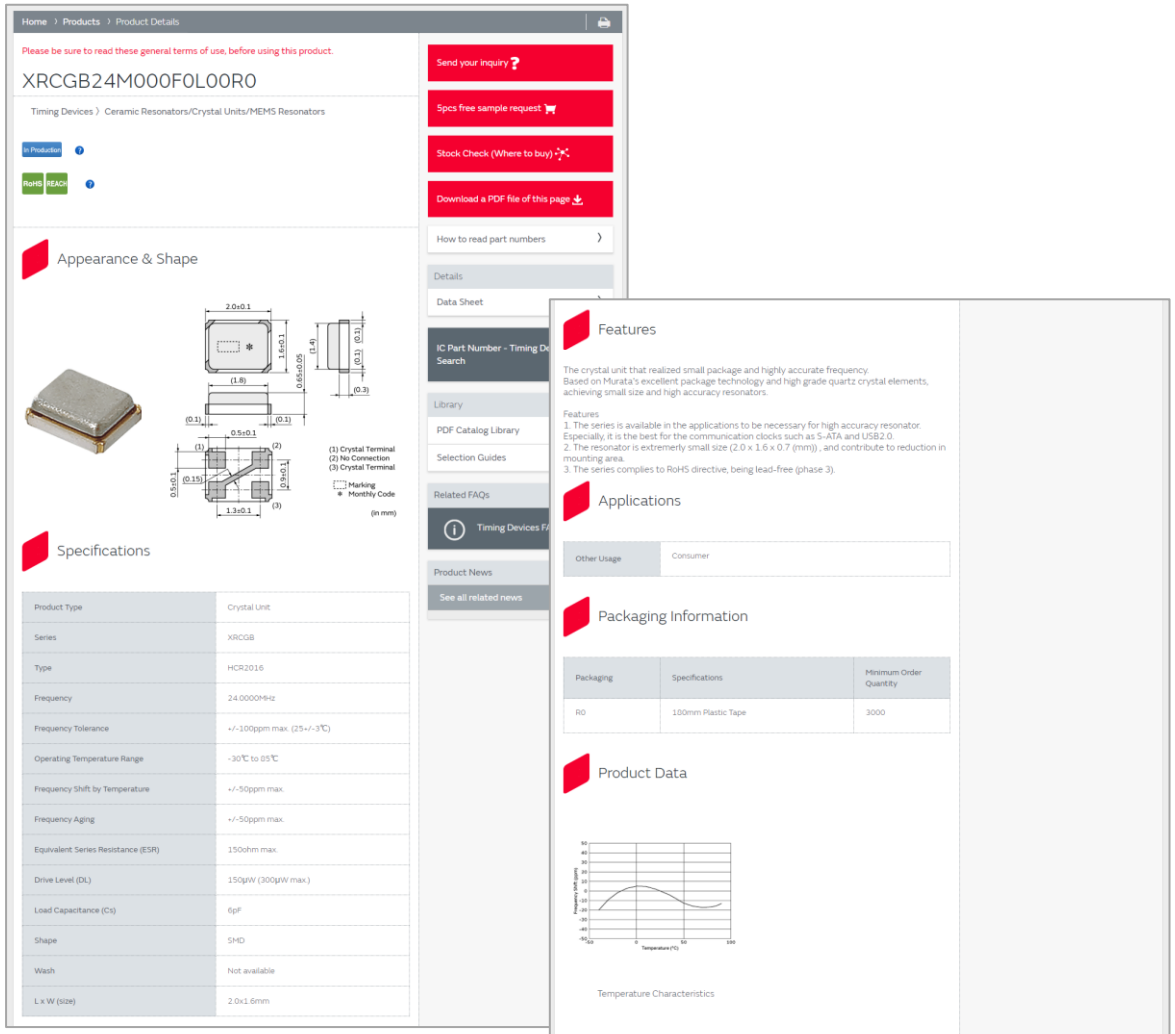
Appendix

Examples of Published Materials (2/3)

- (l) Example of Murata Product Info. (Web)



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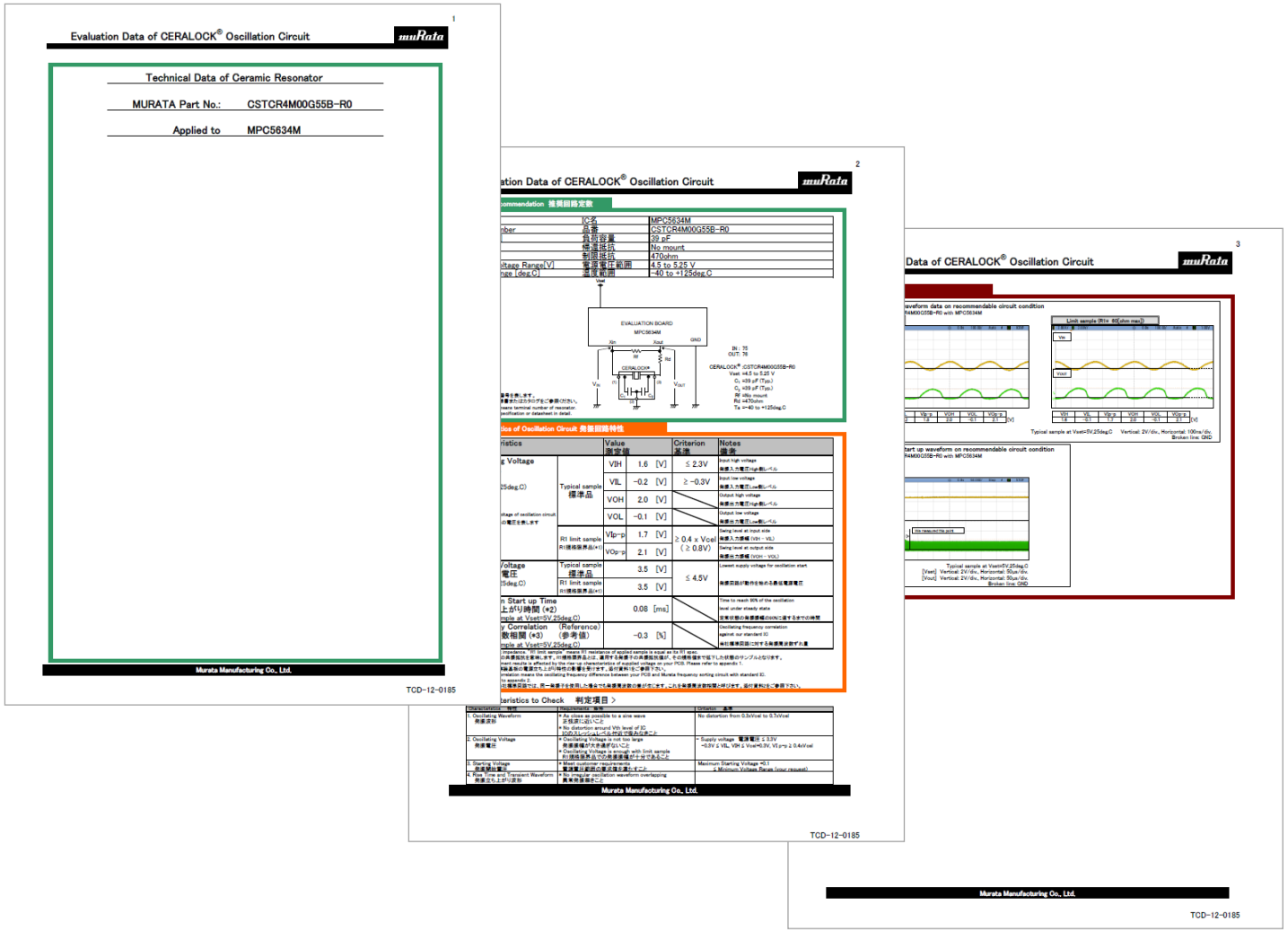
Appendix

Examples of Published Materials (3/3)

- (m) Example of Circuit Info.



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