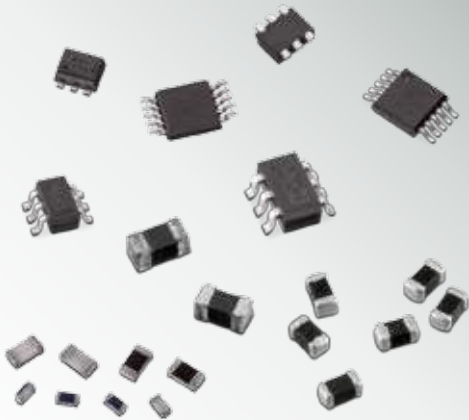




# DESIGN KIT

## ESD Protection



### CONTENT:

WE-VE; WE-TVS; WE-VEA

### TECHNICAL DATA:

$V_{DC}$ : 3.3 ~ 24 V

$C_{Oh}$ : 0.2 ~ 100 pF

**Order Code 823 999**  
**Version 2.0**

# ESD Protection



General	<b>823 57 050 330</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 33 pF Size: 0402 <span style="color: yellow;">■</span>	<b>823 56 050 101</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 100 pF Size: 0603 <span style="color: yellow;">■</span>	<b>823 57 120 050</b> V <sub>DC</sub> : 12 V C <sub>Ch</sub> : 5 pF Size: 0402 <span style="color: yellow;">■</span>	<b>823 57 120 100</b> V <sub>DC</sub> : 12 V C <sub>Ch</sub> : 10 pF Size: 0402 <span style="color: yellow;">■</span>	<b>824 002 74</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 1.2 pF Size: SC70-6L <span style="color: blue;">■</span>
	<b>823 50 120 560</b> V <sub>DC</sub> : 12 V C <sub>Ch</sub> : 56 pF Size: 0805 <span style="color: yellow;">■</span>	<b>823 56 050 050</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 5 pF Size: 0603 <span style="color: yellow;">■</span>	<b>823 56 120 100</b> V <sub>DC</sub> : 12 V C <sub>Ch</sub> : 10 pF Size: 0603 <span style="color: yellow;">■</span>	<b>824 015</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 2 pF Size: SOT23-6L <span style="color: blue;">■</span>	<b>824 001</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 1 pF Size: SOT23-6L <span style="color: blue;">■</span>
	<b>824 021</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 55 pF Size: SOT23-3L <span style="color: blue;">■</span>	<b>824 022</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 12 pF Size: SOT23-3L <span style="color: blue;">■</span>	<b>823 57 050 220</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 22 pF Size: 0402 <span style="color: yellow;">■</span>	<b>823 56 050 220</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 22 pF Size: 0603 <span style="color: yellow;">■</span>	<b>823 07 050 029</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 0.2 pF Size: 0402 <span style="color: green;">■</span>
	<b>824 023 04</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 13 pF Size: SOT23-6L <span style="color: blue;">■</span>	<b>824 023 05</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 13 pF Size: SOT23-6L <span style="color: blue;">■</span>	<b>823 57 240 030</b> V <sub>DC</sub> : 24 V C <sub>Ch</sub> : 3 pF Size: 0402 <span style="color: yellow;">■</span>	<b>823 56 240 030</b> V <sub>DC</sub> : 24 V C <sub>Ch</sub> : 3 pF Size: 0603 <span style="color: yellow;">■</span>	<b>823 06 050 029</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 0.2 pF Size: 0603 <span style="color: green;">■</span>
	<b>824 023 75</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 13 pF Size: SC70-6L <span style="color: blue;">■</span>	<b>824 011</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 2 pF Size: SOT23-5L <span style="color: blue;">■</span>	<b>824 011 6</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 2 pF Size: SOT143-4L <span style="color: blue;">■</span>	<b>824 014</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 0.55 pF Size: SOT23-6L <span style="color: blue;">■</span>	<b>824 014 44</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 0.55 pF Size: MSOP-10L <span style="color: blue;">■</span>
	<b>824 013 6</b> V <sub>DC</sub> : 3.3 V C <sub>Ch</sub> : 3 pF Size: SOT143-4L <span style="color: blue;">■</span>	<b>824 013</b> V <sub>DC</sub> : 3.3 V C <sub>Ch</sub> : 3 pF Size: SOT23-6L <span style="color: blue;">■</span>	<b>824 001 02</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 2 pF Size: SOT23-6L <span style="color: blue;">■</span>	<b>824 001 52</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 2 pF Size: SOT563 <span style="color: blue;">■</span>	<b>824 016 46</b> V <sub>DC</sub> : 5 V C <sub>Ch</sub> : 0.2 pF Size: MSOP-8L <span style="color: blue;">■</span>
	<b>3.3 V</b>	<b>USB 2.0 FT*</b>	<b>USB 2.0</b>	<b>HDMI; 1000 BaseT</b>	<b>HDMI; USB 2.0</b>
	<b>USB 1.1; RS422</b>	<b>USB 1.1; RS422</b>	<b>CAN</b>	<b>HDMI; USB 2.0</b>	<b>100 BaseT; USB 2.0 Double</b>
	<b>3.3 V</b>	<b>USB 2.0 FT*</b>	<b>USB 2.0</b>	<b>HDMI; 1000 BaseT</b>	<b>HDMI; USB 2.0</b>

\* FT = Flow Thru

**Important information:** Würth Elektronik's design kits contain reference components. These components correspond with the current product development status on the day of supply. Exchange of the reference components to components with up-to-date product development status is not carried out automatically. No liability is taken for the use of these reference components. Therefore, please request new samples prior to releases for series production and product release.

Please check datasheets on [www.we-online.com](http://www.we-online.com) for specifications.  
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