WSL Marking

PURPOSE

This document outlines the WSL series product marking that includes all families of the WSL series, such as WSL-18, WSLS, WSLT, WSLP, etc. These product marking methods have been used since 01-Aug-08.

WSL-0603

No marking on the component

WSL-0805

- Maximum of 3, minimum of 2 characters per part and no DALE
- No tolerance is printed
- Values below 10 mΩ printed with “L”

Examples:

WSL-0805 0.04 Ω	1 % printed as: **R04**
WSL-0805 0.015 Ω	1 % printed as: **015**
WSL-0805 0.009 Ω	1 % printed as: **9L0**

WSL-0612

No marking on the component

WSL-1206

- Maximum of 4, minimum of 3 characters per part and no DALE
- No tolerance is printed
- Values below 10 mΩ printed with “L”

Examples:

WSL-1206 0.006 Ω	1 % printed as: **6L0**
WSL-1206 0.0249 Ω	1 % printed as: **0249**

WSL-1020

No marking on the component

WSL-2010

0.001 Ω to 0.0069 Ω

- Maximum of 4, minimum of 3 characters per part and no DALE
- No tolerance is printed
- Values below 10 mΩ printed with “L”

Examples:

WSL-2010 0.005 Ω	1 % printed as: **5L0**
WSL-2010 0.00499 Ω	1 % printed as: **4L99**

0.007 Ω to 0.5 Ω

- Maximum of 5, minimum of 4 characters per part and no DALE
- Tolerance may be printed on 1 % parts only
- Values below 10 mΩ printed with “L”

Examples:

WSL-2010 0.5 Ω	1 % printed as: **R50F** or **R500**
WSL-2010 0.055 Ω	1 % printed as: **R055F** or **R055**
WSL-2010 0.005 Ω	1 % printed as: **5L0F** or **5L00**

WSL-2512

0.001 Ω to 0.0049 Ω

- Maximum of 4, minimum of 3 characters per part and no DALE
- No tolerance is printed
- Values below 10 mΩ printed with “L”

Examples:

WSL-2512 0.005 Ω	1 % printed as: **5L0**
WSL-2512 0.00311 Ω	1 % printed as: **3L11**

0.005 Ω to 0.5 Ω

- Maximum of 5, minimum of 4 characters per part and no DALE
- Tolerance may be printed on 1 % parts only
- Values below 10 mΩ printed with “L”

Examples:

WSL-2512 0.5 Ω	1 % printed as: **R50F** or **R500**
WSL-2512 0.055 Ω	1 % printed as: **R055F** or **R055**
WSL-2512 0.022 Ω	5 % printed as: **R022**
WSL-2512 0.005 Ω	1 % printed as: **5L0F** or **5L00**

WSLS-2512

0.010 Ω to 0.100 Ω

- Contains 4 digits
- First 3 digits will be resistance value
- Fourth digit will be the stability code, refer to table below

Stability Code	Life Stability	TCR	Derating Curve
G	0.25 %	± 75 ppm/°C	70 ° to 170 °C
H	0.5 %	± 75 ppm/°C	70 ° to 170 °C

Examples:

WSLS-2512 0.1 Ω	G stability	0.5 % printed as: **100G**
WSLS-2512 0.010 Ω	H stability	1.0 % printed as: **010H**

WSL-2816

0.002 Ω to 0.1 Ω

- Maximum of 5, minimum of 2 characters per part and no DALE
- Tolerance may be printed on 1 % parts only
- Values below 10 mΩ printed with “L”

Examples:

WSL-2816 0.1 Ω	1 % printed as: **R1F** or **R1**
WSL-2816 0.055 Ω	1 % printed as: **R055F** or **R055**
WSL-2816 0.055 Ω	5 % printed as: **R055**
WSL-2816 0.005 Ω	1 % printed as: **5L0F** or **5L0**

WSL-3637

0.001 Ω to 0.00199 Ω

- Maximum of 5, minimum of 3 characters per part and no DALE
- Tolerance may be printed on 1 % parts only
- All values printed with “L”

Examples:

WSL-3637 0.001 Ω	1 % printed as: **1L0F** or **1L0**
WSL-3637 0.00199 Ω	1 % printed as: **1L99F** or **1L99**
WSL-3637 0.00199 Ω	5 % printed as: **1L99**

0.002 Ω to 0.01 Ω

- Maximum of 5, minimum of 2 characters per part and DALE is printed on the part
- Tolerance may be printed on 1 % parts only

Examples:

WSL-3637 0.01 Ω	1 % printed as:	**DALE R01F**	or	**DALE R01**
WSL-3637 0.022 Ω	5 % printed as:	**DALE R022**		
WSL-3637 0.002 Ω	1 % printed as:	**DALE 2L0F**	or	**DALE 2L0**

WSL-2726 / WSL-4026

0.0003 Ω to 0.005 Ω

- Maximum of 12 characters (including spaces) per line and no DALE
- Date code printed based upon week and year of manufacture

Examples:

WSL-2726 0.0003 Ω	1 % printed as:	**WSL2726 0.0003Ω 1% 1119**
WSL-4026 0.0052 Ω	1 % printed as:	**WSL4026 0.005Ω 1% 1119**

ADDITIONAL RESOURCES

WSL product search	www.vishay.com/search?query=wsl
Decade tables	www.vishay.com/doc?30117
Product overview	www.vishay.com/doc?49581