

# Wire Wound Chip Common Mode Choke Coil – SDCW-CH Series

Operating Temp. : -40°C~+85°C



## FEATURES

- Winding type realizes small size and low profile
- Suppress noise for the high-speed differential signal lines
- Excellent solder ability

## APPLICATIONS

- High speed differential signal lines for HDMI, DVI, etc.

## PRODUCT IDENTIFICATION

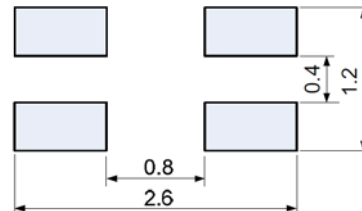
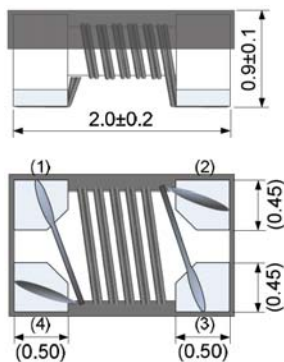
| <u>SDCW</u><br>①  | <u>2012</u><br>②                          | <u>CH</u><br>③ | <u>-2</u><br>④ | <u>-900</u><br>⑤                          | <u>T</u><br>⑥  | <u>F</u><br>⑦ |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
|---|---|----------------|----------------|---|--|---------------|--------------------------------------|--|-------------|---------------|---|-----|---|---|---------|---|---|-------------|--|--|
| ①   | ②   |                | ③              |   | ④  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| <table border="1"> <tr><td colspan="2">Type</td></tr> <tr><td>SDCW</td><td>Winding Type<br/>Common Mode Choke<br/>Coil</td></tr> </table> | Type                                      |                | SDCW           | Winding Type<br>Common Mode Choke<br>Coil | <table border="1"> <tr><td colspan="2">External Dimensions (L×W) (mm)</td></tr> <tr><td>2012 [0805]</td><td>2.0×1.2</td></tr> </table>                   |               | External Dimensions (L×W) (mm)       |  | 2012 [0805] | 2.0×1.2       | <table border="1"> <tr><td colspan="2">Code</td></tr> <tr><td>CH</td><td>HDMI、DVI<br/>Coating &amp; For HDMI<br/>and DVI</td></tr> </table> |     | Code  |   | CH      | HDMI、DVI<br>Coating & For HDMI<br>and DVI |   |             |  |  |
| Type  |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| SDCW  | Winding Type<br>Common Mode Choke<br>Coil |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| External Dimensions (L×W) (mm)  |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| 2012 [0805]   | 2.0×1.2                                   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| Code  |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| CH  | HDMI、DVI<br>Coating & For HDMI<br>and DVI |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| ④   | ⑤   |                | ⑥              |   | ⑦  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| <table border="1"> <tr><td colspan="2">Number of Lines</td></tr> <tr><td colspan="2">2</td></tr> </table>                                 | Number of Lines                           |                | 2              |   | <table border="1"> <tr><td colspan="2">阻抗 Impedance</td></tr> <tr><td>Example</td><td>Nominal Value</td></tr> <tr><td>900</td><td>90Ω</td></tr> </table> |               | 阻抗 Impedance                         |  | Example     | Nominal Value | 900   | 90Ω | <table border="1"> <tr><td colspan="2">Packing</td></tr> <tr><td>T</td><td>Tape &amp; Reel</td></tr> </table> |   | Packing |   | T | Tape & Reel |  |  |
| Number of Lines   |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| 2   |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| 阻抗 Impedance  |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| Example   | Nominal Value                             |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| 900   | 90Ω                                       |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| Packing   |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| T   | Tape & Reel                               |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| ⑦   |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| <table border="1"> <tr><td colspan="7">Hazardous Substance<br/>Free Products</td></tr> <tr><td colspan="7">F</td></tr> </table>           |   |                |                |   |  |               | Hazardous Substance<br>Free Products |  |             |               |   |     |   | F |         |   |   |             |  |  |
| Hazardous Substance<br>Free Products  |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |
| F   |   |                |                |   |  |               |                                      |  |             |               |   |     |   |   |         |   |   |             |  |  |

## SHAPE AND DIMENSIONS

SDCW2012CH TYPE

Recommended Land Pattern

Unit: mm



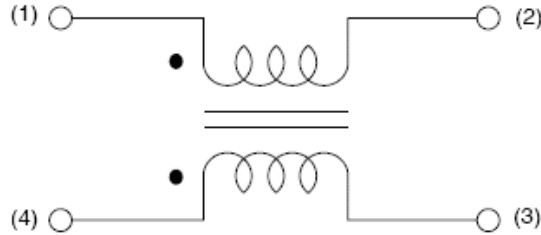
## SPECIFICATIONS

### SDCW-CH TYPE

| Part Number        | Common Mode Impedance @100MHz | Max. DC Resistance | Max. Rated Current | Rated Voltage   | Min. Insulation Resistance |
|--------------------|-------------------------------|--------------------|--------------------|-----------------|----------------------------|
| Units              | $\Omega$                      | $\Omega$           | mA                 | Volts           | M $\Omega$                 |
| Symbol             | Z                             | DCR                | I <sub>r</sub>     | V <sub>DC</sub> | IR                         |
| SDCW2012CH-2-670TF | 67±25%                        | 0.5                | 250                | 50              | 10                         |
| SDCW2012CH-2-900TF | 90±25%                        | 0.6                | 200                | 50              | 10                         |
| SDCW2012CH-2-121TF | 120±25%                       | 0.6                | 200                | 50              | 10                         |

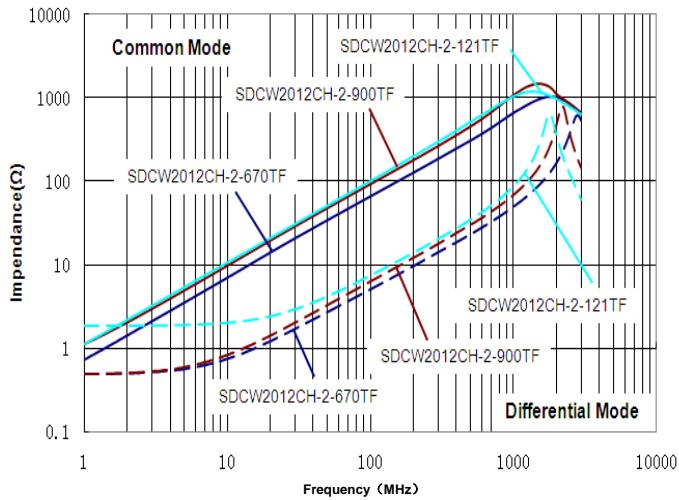
※Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

## EQUIVALENT CIRCUIT

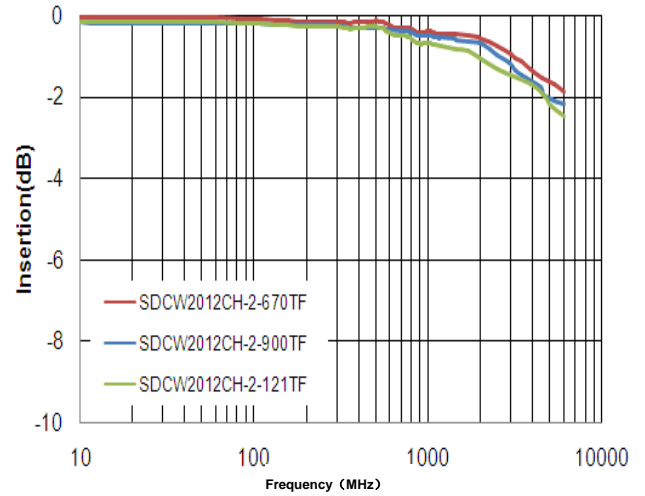


## TYPICAL ELECTRICAL CHARACTERISTICS

Impedance vs. Frequency



Insertion Loss



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[DLW5BTM102TQ2L](#) [CMF16-153131](#) [CMF23H-273141](#) [744252510](#) [B82793C0253N201](#)