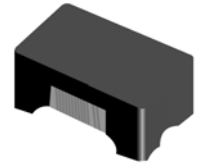


Wire Wound Chip Common Mode Choke Coil – SDCW Series

Operating Temp. : -40°C~+85°C



FEATURES

- Winding type realizes small size and low profile
- Prevention of common mode noise at high frequency
- 30Ω~2200Ω are optional for different noise level and signal frequency
- Excellent solderability

APPLICATIONS

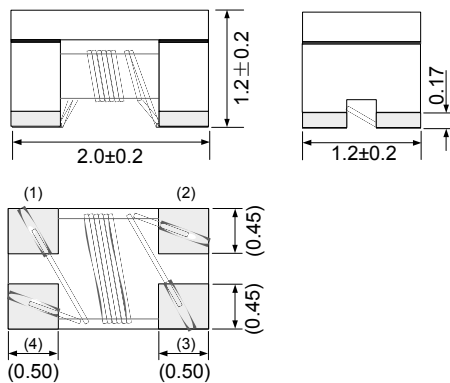
- USB2.0 of PC, peripheral equipments, small digital AV equipments, etc.
- LVDS lines of Note PC, LCD
- Audio lines

PRODUCT IDENTIFICATION

| <u>SDCW</u> ① | <u>2012</u> ② | <u>(L)</u> ③ | <u>-2</u> ④ | <u>-900</u> ⑤ | <u>T</u> ⑥ | <u>F</u> ⑦ | | | | | | | | | | | | | | | | | |
|---|-------------------------------------|-----------------|----------------|------------------|-------------------------------------|---|-----|------------|--|--------------------------------|-------------|---|---------|-------------|-----------------------------------|---|---|--|--|------|--|---|----------------|
| <table border="1"> <tr><th colspan="2">Type</th></tr> <tr><td>SDCW</td><td>Winding Type Common Mode Choke Coil</td></tr> </table> | | Type | | SDCW | Winding Type Common Mode Choke Coil | <table border="1"> <tr><th colspan="2">(L×W) (mm)</th></tr> <tr><th colspan="2">External Dimensions (L×W) (mm)</th></tr> <tr><td>2012 [0805]</td><td>2.0×1.2</td></tr> <tr><td>3216 [1206]</td><td>3.2×1.6</td></tr> </table> | | (L×W) (mm) | | External Dimensions (L×W) (mm) | | 2012 [0805] | 2.0×1.2 | 3216 [1206] | 3.2×1.6 | <table border="1"> <tr><th colspan="2">Code</th></tr> <tr><td>L</td><td>Larger Current</td></tr> </table> | | | | Code | | L | Larger Current |
| Type | | | | | | | | | | | | | | | | | | | | | | | |
| SDCW | Winding Type Common Mode Choke Coil | | | | | | | | | | | | | | | | | | | | | | |
| (L×W) (mm) | | | | | | | | | | | | | | | | | | | | | | | |
| External Dimensions (L×W) (mm) | | | | | | | | | | | | | | | | | | | | | | | |
| 2012 [0805] | 2.0×1.2 | | | | | | | | | | | | | | | | | | | | | | |
| 3216 [1206] | 3.2×1.6 | | | | | | | | | | | | | | | | | | | | | | |
| Code | | | | | | | | | | | | | | | | | | | | | | | |
| L | Larger Current | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><th colspan="2">Number of Lines</th></tr> <tr><td colspan="2">2</td></tr> </table> | | Number of Lines | | 2 | | <table border="1"> <tr><th colspan="2">Packing</th></tr> <tr><td>T</td><td>Tape & Reel</td></tr> </table> | | Packing | | T | Tape & Reel | <table border="1"> <tr><th colspan="2">Hazardous Substance Free Products</th></tr> <tr><td colspan="2">F</td></tr> </table> | | | Hazardous Substance Free Products | | F | | | | | | |
| Number of Lines | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Packing | | | | | | | | | | | | | | | | | | | | | | | |
| T | Tape & Reel | | | | | | | | | | | | | | | | | | | | | | |
| Hazardous Substance Free Products | | | | | | | | | | | | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><th colspan="2">Impedance</th></tr> <tr><th>Example</th><th>Nominal Value</th></tr> <tr><td>900</td><td>90Ω</td></tr> </table> | | Impedance | | Example | Nominal Value | 900 | 90Ω | | | | | | | | | | | | | | | | |
| Impedance | | | | | | | | | | | | | | | | | | | | | | | |
| Example | Nominal Value | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 90Ω | | | | | | | | | | | | | | | | | | | | | | |

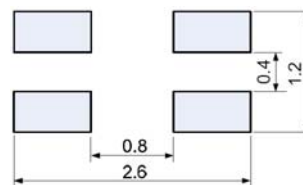
SHAPE AND DIMENSIONS

SDCW2012 Type



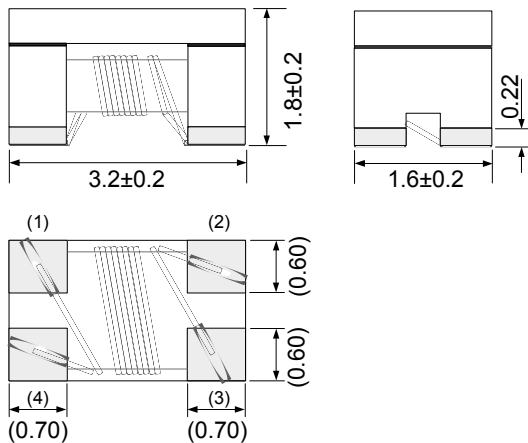
Recommended Land Pattern

Unit: mm



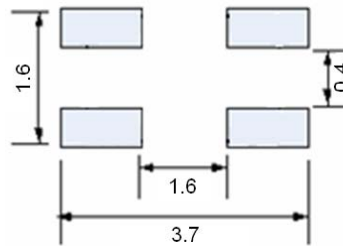
SHAPE AND DIMENSIONS

SDCW3216 Type



Recommended Land Pattern

Unit: mm



SPECIFICATIONS

SDCW2012(L) TYPE

| Part Number | Common Mode Impedance @100MHz | Max. DC Resistance | Max. Rated Current | Rated Voltage | Min. Insulation Resistance |
|-------------------|-------------------------------|--------------------|--------------------|-----------------|----------------------------|
| Units | Ω | Ω | mA | Volts | M Ω |
| Symbol | Z | DCR | I _r | V _{DC} | IR |
| SDCW2012-2-300TF | 30±25% | 0.20 | 450 | 50 | 10 |
| SDCW2012-2-670TF | 67±25% | 0.25 | 400 | 50 | 10 |
| SDCW2012-2-900TF | 90±25% | 0.35 | 330 | 50 | 10 |
| SDCW2012-2-121TF | 120±25% | 0.30 | 370 | 50 | 10 |
| SDCW2012-2-181TF | 180±25% | 0.35 | 330 | 50 | 10 |
| SDCW2012-2-201TF | 200±25% | 0.40 | 300 | 50 | 10 |
| SDCW2012-2-221TF | 220±25% | 0.40 | 300 | 50 | 10 |
| SDCW2012-2-261TF | 260±25% | 0.40 | 300 | 50 | 10 |
| SDCW2012-2-361TF | 360±25% | 0.45 | 280 | 50 | 10 |
| SDCW2012-2-371TF | 370±25% | 0.45 | 280 | 50 | 10 |
| SDCW2012-2-601TF | 600±25% | 0.55 | 200 | 50 | 10 |
| SDCW2012-2-751TF | 750±25% | 0.70 | 180 | 50 | 10 |
| SDCW2012-2-901TF | 900±25% | 0.80 | 150 | 50 | 10 |
| SDCW2012-2-102TF | 1000±25% | 0.80 | 150 | 50 | 10 |
| SDCW2012L-2-900TF | 90±25% | 0.19 | 400 | 50 | 10 |
| SDCW2012L-2-121TF | 120±25% | 0.22 | 370 | 50 | 10 |
| SDCW2012L-2-201TF | 200±25% | 0.25 | 350 | 50 | 10 |

SDCW3216 TYPE

| Part Number | Common Mode Impedance @100MHz | Max. DC Resistance | Max. Rated Current | Rated Voltage | Min. Insulation Resistance |
|------------------|-------------------------------|--------------------|--------------------|-----------------|----------------------------|
| Units | Ω | Ω | mA | Volts | M Ω |
| Symbol | Z | DCR | I _r | V _{DC} | IR |
| SDCW3216-2-900TF | 90±25% | 0.30 | 370 | 50 | 20 |
| SDCW3216-2-161TF | 160±25% | 0.40 | 340 | 50 | 10 |
| SDCW3216-2-261TF | 260±25% | 0.50 | 310 | 50 | 10 |
| SDCW3216-2-601TF | 600±25% | 0.80 | 260 | 50 | 10 |
| SDCW3216-2-102TF | 1000±25% | 1.00 | 230 | 50 | 10 |
| SDCW3216-2-222TF | 2200±25% | 1.20 | 200 | 50 | 10 |

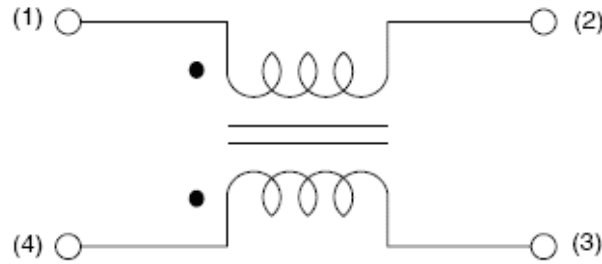
※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

Sunlord

Specifications subject to change without notice. Please check our website for latest information. Revised 2017/04/15

Sunlord Industrial Park, Dafuyuan Industrial Zone, Guanlan, Shenzhen, China 518110 Tel: 0086-755-29832660 Fax: 0086-755-82269029 E-Mail: sunlord@sunlordinc.com

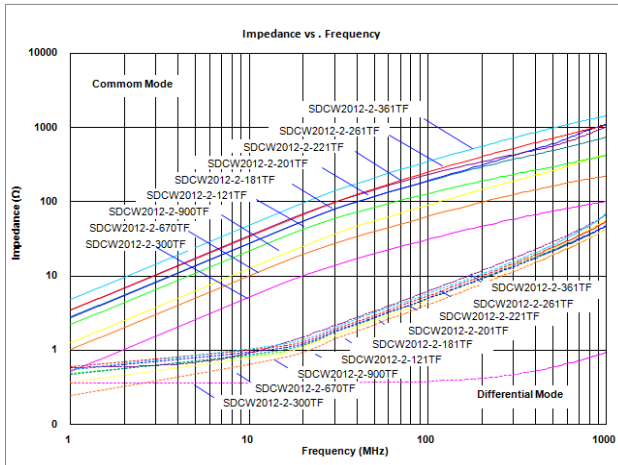
EQUIVALENT CIRCUIT



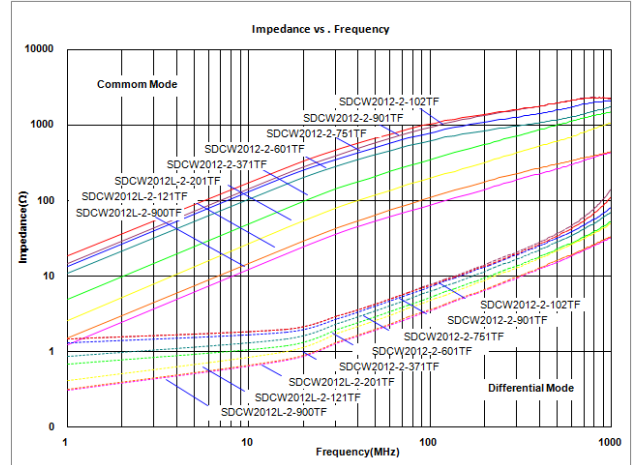
TYPICAL ELECTRICAL CHARACTERISTICS

Impedance vs. Frequency

SDCW2012 TYPE
(30~360Ω)



SDCW2012 TYPE
(370~1000Ω)



SDCW3216 TYPE
(90~2200Ω)

