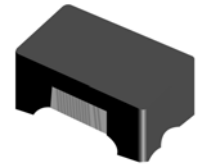


Wire Wound Chip Common Mode Choke Coil – SDCW-S Series

Operating Temp. : -40°C~+85°C



FEATURES

- Winding type realizes small size and low profile
- Prevention of common mode noise at high Frequency
- 25Ω~220Ω are optional for different noise level and signal frequency
- Excellent solderability

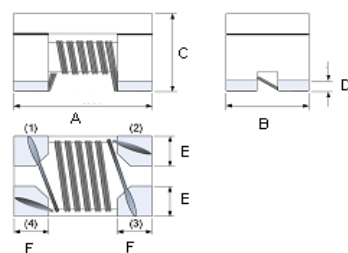
APPLICATIONS

- USB2.0 of IEEE1394, PC, peripheral equipments, small digital AV equipments, etc.
- LVDS lines of Note PC, LCD
- Audio lines

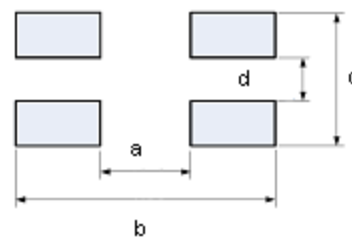
PRODUCT IDENTIFICATION

| | | | | | | |
|---|-------------------------|---|-----------------------|---|----------------------|----------------------|
| <u>SDCW</u> ① | <u>1608</u> ② | <u>S</u> ③ | <u>-2</u> ④ | <u>-900</u> ⑤ | <u>T</u> ⑥ | <u>F</u> ⑦ |
| ① Type SDCW Winding Type Common Mode Choke Coil | | ② External Dimensions (L×W) (mm) 1210[0504] 1.2×1.0 1608[0603] 1.6×0.8 2520[1008] 2.5×2.0 3225[1210] 3.2×2.5 4532[1812] 4.5×3.2 | | ③ Code S Standard | | |
| ④ Number of Lines 2 | | ⑤ Impedance Example Nominal Value 900 90Ω | | ⑦ Hazardous Substance Free Products F | | |
| ⑥ Packing T Tape & Reel | | | | | | |

SHAPE AND DIMENSIONS



Recommended Land Pattern



Unit: mm

| Series | A | B | C | D Max. | E Typ. | F Typ. | a Typ. | b Typ. | c Typ. | d Typ. |
|----------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| SDCW1210 | 1.2±0.2 | 1.0±0.2 | 0.8±0.1 | 0.10 | 0.36 | 0.33 | 0.50 | 1.55 | 1.00 | 0.30 |
| SDCW1608 | 1.6±0.1 | 0.8±0.1 | 1.1±0.1 | 0.10 | 0.25 | 0.33 | 0.73 | 1.89 | 0.85 | 0.25 |
| SDCW2520 | 2.5±0.2 | 2.0±0.2 | 1.2±0.2 | 0.20 | 0.60 | 0.45 | 1.20 | 3.20 | 2.00 | 0.60 |
| SDCW3225 | 3.2±0.2 | 2.5±0.2 | 1.8±0.2 | 0.30 | 0.80 | 0.60 | 2.20 | 4.00 | 2.50 | 0.90 |
| SDCW4532 | 4.5±0.2 | 3.2±0.2 | 2.8±0.2 | 0.50 | 1.10 | 0.80 | 2.70 | 5.10 | 3.20 | 1.00 |

SPECIFICATIONS

SDCW1210S 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 |
| SDCW1210S-2-200TF | 20±25% | 0.15 | 500 | 20 | 10 |
| SDCW1210S-2-350TF | 35±25% | 0.18 | 430 | 20 | 10 |
| SDCW1210S-2-600TF | 60±25% | 0.30 | 400 | 20 | 10 |
| SDCW1210S-2-900TF | 90±25% | 0.30 | 400 | 20 | 10 |
| SDCW1210S-2-161TF | 160±25% | 0.40 | 260 | 20 | 10 |
| SDCW1210S-2-201TF | 200±25% | 0.40 | 250 | 20 | 10 |
| SDCW1210S-2-361TF | 360±25% | 0.55 | 250 | 20 | 10 |

SDCW1608S 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 |
| SDCW1608S-2-250TF | 25±25% | 0.10 | 500 | 20 | 10 |
| SDCW1608S-2-600TF | 60±25% | 0.20 | 350 | 20 | 10 |
| SDCW1608S-2-900TF | 90±25% | 0.25 | 300 | 20 | 10 |
| SDCW1608S-2-141TF | 140±25% | 0.25 | 300 | 20 | 10 |
| SDCW1608S-2-221TF | 220±25% | 0.25 | 300 | 20 | 10 |

SDCW2520S 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 |
| SDCW2520S-2-301TF | 300±25% | 0.25 | 400 | 50 | 10 |
| SDCW2520S-2-451TF | 450±25% | 0.30 | 350 | 50 | 10 |
| SDCW2520S-2-601TF | 600±25% | 0.38 | 330 | 50 | 10 |
| SDCW2520S-2-102TF | 1000±25% | 0.50 | 240 | 50 | 10 |

SDCW3225S 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 |
| SDCW3225S-2-800TF | 80±25% | 0.12 | 640 | 50 | 10 |
| SDCW3225S-2-161TF | 160±25% | 0.15 | 480 | 50 | 10 |
| SDCW3225S-2-271TF | 270±25% | 0.25 | 450 | 50 | 10 |
| SDCW3225S-2-102TF | 1000±25% | 0.35 | 350 | 50 | 10 |
| SDCW3225L-2-601TF | 600±25% | 0.12 | 1000 | 50 | 10 |

SDCW4532S 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 |
| SDCW4532S-2-331TF | 330±25% | 0.11 | 1100 | 50 | 10 |
| SDCW4532S-2-601TF | 600±25% | 0.12 | 1000 | 50 | 10 |
| SDCW4532S-2-801TF | 800±25% | 0.16 | 900 | 50 | 10 |



Specifications subject to change without notice. Please check our website for latest information. Revised 2018/04/25

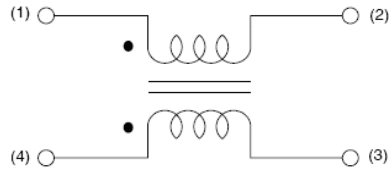
SPECIFICATIONS

SDCW4532S 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 |
| SDCW4532S-2-102TF | 1000±25% | 0.18 | 800 | 50 | 10 |
| SDCW4532S-2-142TF | 1400±25% | 0.20 | 700 | 50 | 10 |

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

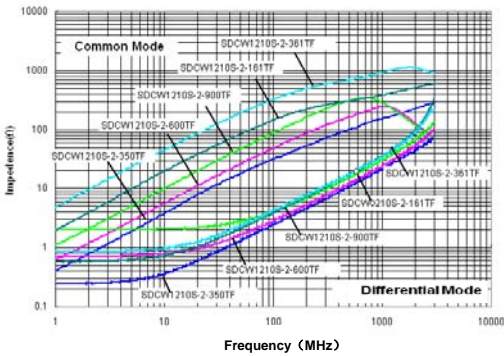
EQUIVALENT CIRCUIT



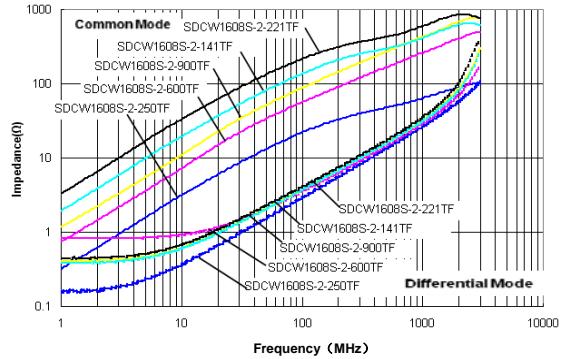
TYPICAL ELECTRICAL CHARACTERISTICS

Impedance vs. Frequency

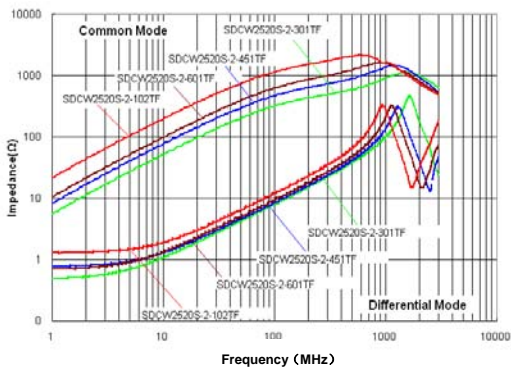
SDCW1210S TYPE



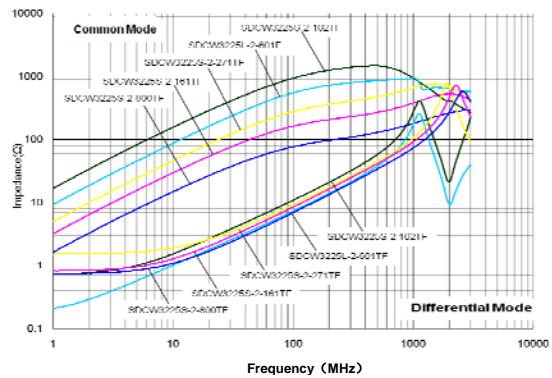
SDCW1608S TYPE



SDCW2520S TYPE



SDCW3225S TYPE



SDCW4532S TYPE

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