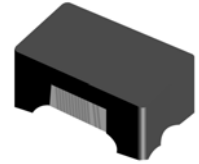


# Wire Wound Chip Common Mode Choke Coil – SDCW-H Series

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 solderability

## APPLICATIONS

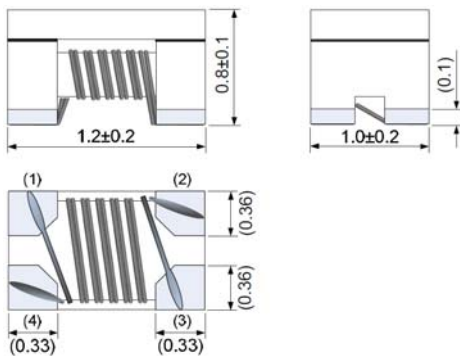
- High speed differential signal lines for HDMI, DVI, etc.

## PRODUCT IDENTIFICATION

<u>SDCW</u> ①	<u>2012</u> ②	<u>H</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">External Dimensions (L×W) (mm)</th></tr> <tr><td>1210 [0504]</td><td>1.2×1.0</td></tr> <tr><td>2012 [0805]</td><td>2.0×1.2</td></tr> </table>	External Dimensions (L×W) (mm)		1210 [0504]	1.2×1.0	2012 [0805]	2.0×1.2	<table border="1"> <tr><th colspan="2">Code</th></tr> <tr><td>H</td><td>For High-speed Differential Signal Lines</td></tr> </table>	Code		H	For High-speed Differential Signal Lines	<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">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	<table border="1"> <tr><th colspan="2">Packing</th></tr> <tr><td>T</td><td>Tape &amp; 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	
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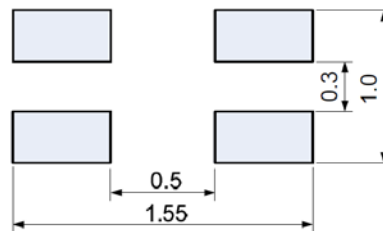
## SHAPE AND DIMENSIONS

### SDCW1210H TYPE



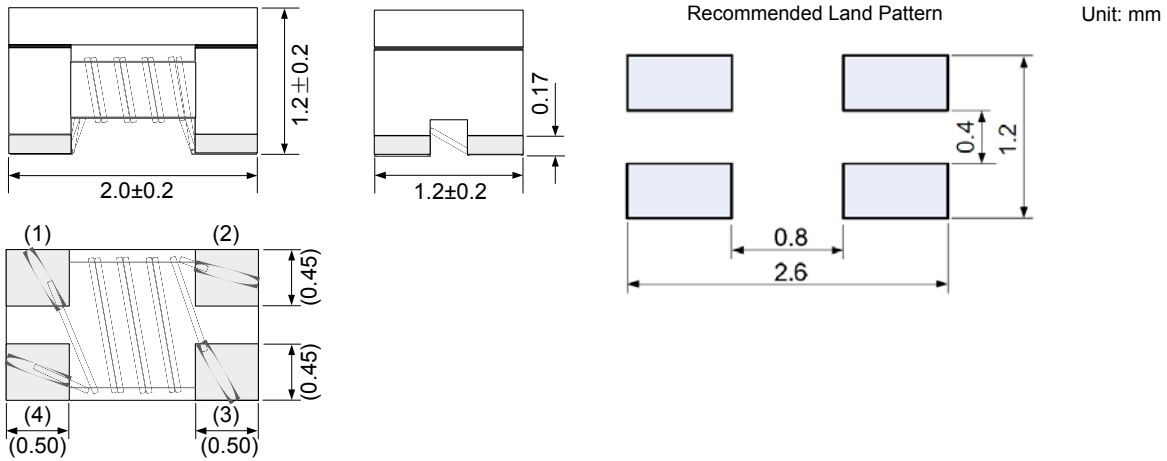
### Recommended Land Pattern

Unit: mm



## SHAPE AND DIMENSIONS

### SDCW2012H TYPE



## SPECIFICATIONS

### SDCW1210H TYPE

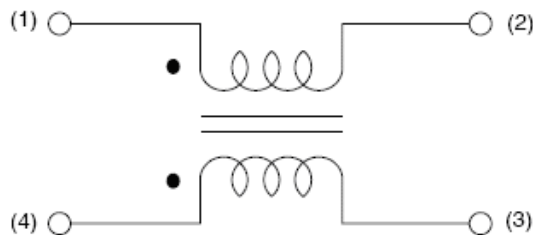
Part Number	Common Mode Impedance @100MHz	Max. DC Resistance	Max. Rated Current	Rated Voltage	Min. Insulation Resistance
Units	$\Omega$	$\Omega$	mA	Volts	M $\Omega$
Symbol	Z	DCR	I <sub>r</sub>	V <sub>DC</sub>	IR
SDCW1210H-2-350TF	35±25%	0.32	320	20	10
SDCW1210H-2-900TF	90±25%	0.50	280	20	10

### SDCW2012H 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
SDCW2012H-2-670TF	67±25%	0.3	320	20	10
SDCW2012H-2-900TF	90±25%	0.4	280	20	10
SDCW2012H-2-121TF	120±25%	0.4	280	20	10

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

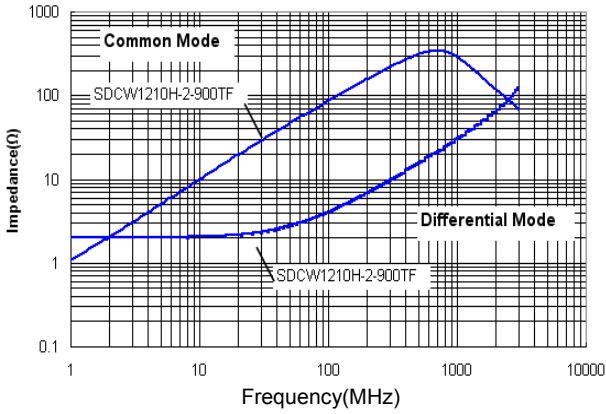
## EQUIVALENT CIRCUIT



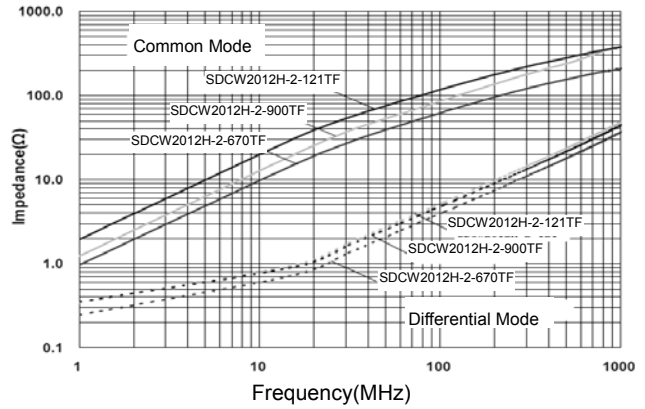
# TYPICAL ELECTRICAL CHARACTERISTICS

## Impedance vs. Frequency

### SDCW1210H TYPE

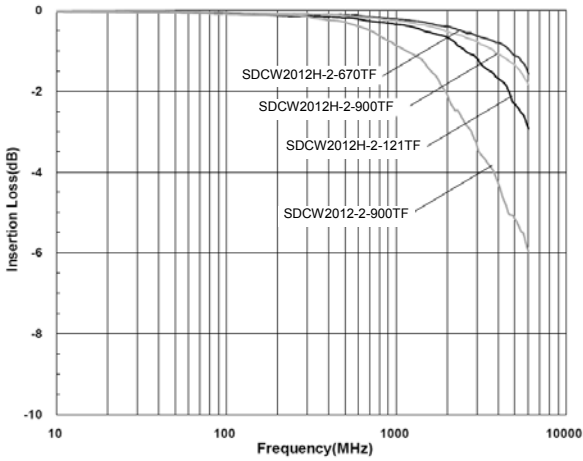


### SDCW2012H TYPE



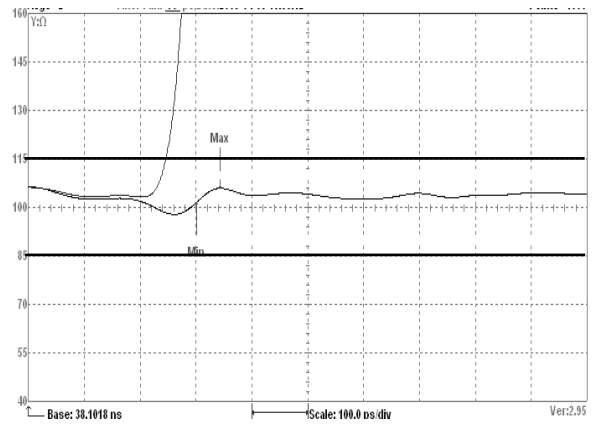
## Insertion Loss

### SDCW2012H TYPE



## Differential Mode Impedance Characteristics

### SDCW2012H-2-900TF



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