INDEX

RoHS COMPLIANT

SMDWCM SERIES

WIRE WOUND TYPE COMMON MODE FILTER.

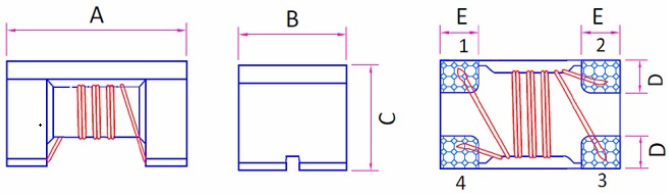
Applications:

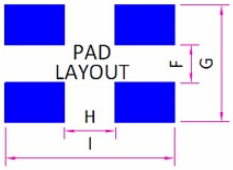
Enable 3D View

- Power switch and servers.
- USB communication
- Telecommunication applications.
- Panel link for LCD panels.
- Countering common mode noise affecting signals in high-speed lines.

This is the product 3D document.
Pleaseclick "Trust the document" to preview.

Shape and Dimensions(Dimensions are in mm) :





Item	A ± 0.2	B ± 0.2	C ± 0.2	D	E
2012	2.00	1.20	1.20	0.50	0.50
3216	3.20	1.60	1.80	0.60	0.60
3225	3.20	2.50	2.20	0.90	0.75
4532	4.50	3.20	2.80	1.20	1.00

Item	F	G	H	I
2012	0.40	1.20	1.20	2.60
3216	0.50	1.60	2.20	3.70
3225	0.60	2.50	2.00	3.70
4532	0.70	3.80	2.50	4.80

Features :

- High common mode impedance at high frequency.

effects excellent noise suppression performance.

- Realizes small size and low profile.

Test equipments:

- Impedance: Agilent E4991A RF Impedance

analyerwith Agilent 16197A test fixture.

- DCR: Milli-ohm meter.

. Electrical specifications at 25℃.

Product Identification :

SMDWCM2012W-900-2P

(1) (2) (3) (4)(5)(6)

(1) Type : Surface Mount Devices.

(2) Style :Wire Wound Type Common Mode Filter.

(3) Dimension: L=2.05mm, W=1.25mm.

(4) Design Code.

(5)Impedance: 900 for90Ω.

(6) 2P : 2 Lines.

● SMDWCM2012Wseries

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Part No.	Z (Ω)	Test Freq (MHz)	DCR (Ω)Max	Irms (mA)Max	Rated Voltage Vdc	Insulation Resistance (MΩ) Min
SMDWCM2012W-300-2P	30±25%	100	0.20	450	50	10
SMDWCM2012W-500-2P	50±25%	100	0.25	450	50	10
SMDWCM2012W-750-2P	75±25%	100	0.25	400	50	10
SMDWCM2012W-900-2P	90±25%	100	0.30	400	50	10
SMDWCM2012W-101-2P	100±25%	100	0.30	400	50	10
SMDWCM2012W-121-2P	120±25%	100	0.30	400	50	10
SMDWCM2012W-161-2P	160±25%	100	0.35	350	50	10
SMDWCM2012W-181-2P	180±25%	100	0.35	350	50	10
SMDWCM2012W-201-2P	200±25%	100	0.35	300	50	10
SMDWCM2012W-221-2P	220±25%	100	0.35	300	50	10
SMDWCM2012W-251-2P	250±25%	100	0.40	300	50	10
SMDWCM2012W-261-2P	260±25%	100	0.40	300	50	10
SMDWCM2012W-301-2P	300±25%	100	0.40	290	50	10
SMDWCM2012W-361-2P	360±25%	100	0.40	290	50	10
SMDWCM2012W-371-2P	370±25%	100	0.45	280	50	10
SMDWCM2012W-481-2P	480±25%	100	0.55	200	50	10
SMDWCM2012W-501-2P	500±25%	100	0.55	200	50	10
SMDWCM2012W-601-2P	600±25%	100	0.55	200	50	10
SMDWCM2012W-671-2P	670±25%	100	0.60	180	50	10
SMDWCM2012W-681-2P	680±25%	100	0.70	180	50	10
SMDWCM2012W-751-2P	750±25%	100	0.80	150	50	10
SMDWCM2012W-801-2P	800±25%	100	0.88	150	50	10
SMDWCM2012W-901-2P	900±25%	100	1.00	100	50	10
SMDWCM2012W-102-2P	1000±25%	100	1.00	100	50	10

Notes

1. All test data is referenced to 25 °C ambient.
2. Operating temperature range -40 ˚C to + 125˚C（Including self - temperature rise）.
3. Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C).
4. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.
   Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions.
   all affect the part temperature. Part temperature should be verified in the end application.

● SMDWCM3216Wseries

RoHS COMPLIANT

Part No.	Z (Ω)	Test Freq (MHz)	DCR (Ω)Max	Irms (mA)Max	Rated Voltage Volts	Insulation Resistance (MΩ) Min
SMDWCM3216W-500-2P	50±25%	100	0.25	400	50	10
SMDWCM3216W-900-2P	90±25%	100	0.30	370	50	10
SMDWCM3216W-161-2P	160±25%	100	0.40	340	50	10
SMDWCM3216W-261-2P	260±25%	100	0.50	310	50	10
SMDWCM3216W-601-2P	600±25%	100	0.80	260	50	10
SMDWCM3216W-102-2P	1000±25%	100	1.00	230	50	10
SMDWCM3216W-222-2P	2200±25%	100	1.20	200	50	10

Notes

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 40 °C to + 85 °C
3. Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C)
4. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

● SMDWCM3225Wseries

RoHS COMPLIANT

Part No.	Z (Ω)	Test Freq (MHz)	DCR (mΩ)Max	Irms (mA)Max	Rated Voltage Volts	Insulation Resistance (MΩ) Min
SMDWCM3225W-900-2P	90±25%	100	60	1000	50	10
SMDWCM3225W-101-2P	100±25%	100	60	1000	50	10
SMDWCM3225W-121-2P	120±25%	100	60	1000	50	10
SMDWCM3225W-201-2P	200±25%	100	80	1000	50	10
SMDWCM3225W-501-2P	500±25%	100	100	1000	50	10
SMDWCM3225W-601-2P	600±25%	100	100	1000	50	10
SMDWCM3225W-102-2P	1000±25%	100	100	1000	50	10

Notes

1. All test data is referenced to 25 °C ambient.

2. Operating temperature range - 40 ℃ to + 125℃（Including self - temperature rise）.

3. Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C).

4. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions

all affect the part temperature. Part temperature should be verified in the end application.

● SMDWCM4532Wseries

RoHS COMPLIANT

Part No.	Z (Ω)	Test Freq (MHz)	DCR (mΩ)Max	Irms (mA)Max	Rated Voltage Volts	Insulation Resistance (MΩ) Min
SMDWCM4532W-800-2P	80±25%	100	50	1100	50	10
SMDWCM4532W-900-2P	90±25%	100	50	1100	50	10
SMDWCM4532W-121-2P	120±25%	100	50	1100	50	10
SMDWCM4532W-201-2P	200±25%	100	50	1100	50	10
SMDWCM4532W-231-2P	230±25%	100	60	1100	50	10
SMDWCM4532W-361-2P	360±25%	100	60	1100	50	10
SMDWCM4532W-421-2P	420±25%	100	70	1100	50	10
SMDWCM4532W-501-2P	500±25%	100	80	1000	50	10
SMDWCM4532W-601-2P	600±25%	100	80	1000	50	10
SMDWCM4532W-701-2P	700±25%	100	80	1000	50	10
SMDWCM4532W-801-2P	800±25%	100	90	900	50	10
SMDWCM4532W-901-2P	900±25%	100	100	800	50	10
SMDWCM4532W-122-2P	1200±25%	100	100	700	50	10
SMDWCM4532W-142-2P	1400±25%	100	100	700	50	10

Notes

1. All test data is referenced to 25 °C ambient.

2. Operating temperature range -40 ˚C to + 125˚C（Including self - temperature rise）.

3. Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C).

4. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions.

all affect the part temperature. Part temperature should be verified in the end application.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.