

Fig 1

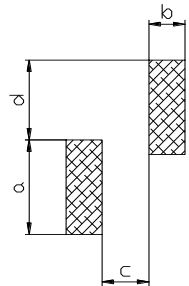
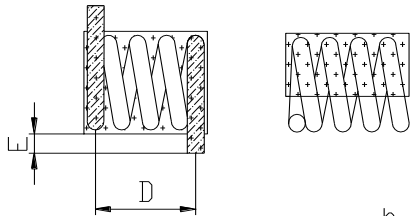
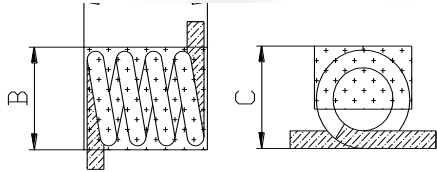
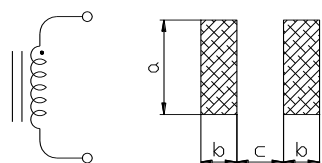
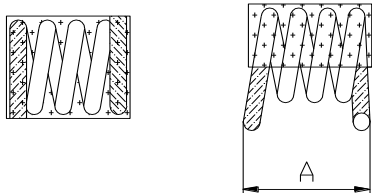
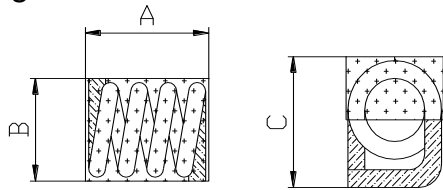


Fig 2



OWA2215C-1008H

Circle Air Coil

GENERAL SPECIFICATIONS

- Operation Temp: -40°C to 125°C(include self-temperature rising)
- Storage ambient condition: 0-40°C and <70%
- Test Frequency : 800 MHz,
- Resistance of soldering heating: 260°C for 10sec
- Temperature rising: 40°C typ. with I_{rms}
- Inductance will drop down 10% typ. at Isat loading
- In compliance with RoHS & REACH directives

FEATURES

- Air core inductor
- High Q
- High Current loading
- Low loss
- Low DCR
- Suitable for SMT process

APPLICATIONS

- Base
- LNA, LNB,
- Satellite
- Antenna

➤ **DIMENSIONS OF OWA2215C to 1008C Circle Air coil**

TYPE	A	B	C	D	E	a	b	c	d	Fig
	±0.3	±0.3	±0.3	±0.3	±0.4	Ref	Ref	Ref	Ref	
OWA2215C	2.20	1.40	1.40	1.80	0.90	2.46	0.79	1.01	1.00	Fig.1
OWA4015C	4.00	1.40	1.40	3.50	0.90	2.46	0.79	2.71	1.00	Fig.1
OWA1320C	9.50 Max	4.50±0.5	4.60±0.4	8.00±0.5	1.30	4.70	2.04	5.96	2.41	Fig.1
OWA0805H	2.85 Max	1.80 Max	2.10 Max	NA	NA	2.30	1.02	0.76	NA	Fig.2
OWA1008H	3.20 Max	1.90 Max	2.20 Max	NA	NA	2.80	1.02	1.27	NA	Fig.2

➤ **ELECTRICAL CHARATERISTICS OF OWA2215C Circle Air Coil**

OW P/N Size: 2.5x1.7x1.7mm	Inductance (nH)	Q Min.	Test Frequency (MHz).	DCR (mΩ) Max.	SRF (GHZ) Min.	Irms (A) Max.
OWA2215C-02T	1.65±10%	100	800	5.5	3	1.6
OWA2215C-03T	2.70±10%	100	800	6.5	3	1.6
OWA2215C-04T	3.85±10%	100	800	7.5	3	1.6
OWA2215C-05T	5.45±5%	100	800	9.5	3	1.6

Note:

1)Please contact sales if you want to custom air coil or antenna by sales@owolff.com

➤ **ELECTRICAL CHARATERISTICS OF OWA4015C Circle Air Coil**

OW P/N Size: 4.3x1.7x1.7mm	Inductance (nH)	Q Min.	Test Frequency (MHz).	DCR (mΩ) Max.	SRF (GHZ) Min.	Irms (A) Max.
OWA4015C-06T	5.60±5%	100	800	10.5	3	1.6
OWA4015C-07T	7.15±5%	100	800	11.5	3	1.6
OWA4015C-08T	8.80±5%	100	800	13.5	3	1.6
OWA4015C-09T	9.85±5%	100	800	14.5	3	1.6
OWA4015C-10T	12.55±5%	100	800	15.5	3	1.6

Note:

1)Please contact sales if you want to custom air coil or antenna by sales@owolff.com

➤ **ELECTRICAL CHARATERISTICS OF OWA1320C Circle Air Coil**

OW P/N Size: 9.5x5x5mm	Inductance (nH)	Q Min.	Test Frequency (MHz).	DCR (mΩ) Max.	SRF (GHZ) Min.	Irms (A) Max.
OWA1320C-09T	90±5%	100	50	14	1	3.5
OWA1320C-10T	111±5%	100	50	9.5	1	3.5



OWA1320C-11T	130±5%	100	50	10.8	0.9	3
OWA1320C-12T	169±5%	100	50	12	0.8	3
OWA1320C-13T	206±5%	100	50	10.5	0.7	3
OWA1320C-14T	222±5%	100	50	14	0.6	3
OWA1320C-15T	246±5%	100	50	17	0.6	3
OWA1320C-16T	307±5%	100	50	22	0.5	3
OWA1320C-17T	380±5%	100	50	25.5	0.5	2.5
OWA1320C-18T	422±5%	100	50	39	0.4	2.5
OWA1320C-19T	491±5%	100	50	40	0.4	2
OWA1320C-20T	538±5%	100	50	42	0.4	2

Note:

1)Please contact sales if you want to custom air coil or antenna by sales@owolff.com

➤ **ELECTRICAL CHARATERISTICS OF OWA0805H Circle Air Coil**

OW P/N Size:2.84x1.8x2.1mm	Inductance (nH)	Q Min.	Test Frequency (MHz).	DCR (mΩ) Max.	SRF (GHZ) Min.	Irms (A) Max.
OWA0805H-3N9K	3.9±10%	80	300	2.6	3	1.2
OWA0805H-4N7K	4.7±10%	80	300	3.6	3	0.9
OWA0805H-5N6K	5.6±10%	80	300	3.7	3	0.95
OWA0805H-6N8K	6.8±10%	80	300	4.5	3	0.9
OWA0805H-8N2K	8.2±10%	80	300	5.3	3	0.84
OWA0805H-10NK	10.0±10%	70	300	5.4	3	0.9
OWA0805H-12NK	12.0±10%	70	300	6.3	3	0.9
OWA0805H-15NK	15.0±10%	70	300	7.2	2.5	0.9
OWA0805H-18NK	18.0±10%	70	300	12.5	2.5	0.5
OWA0805H-22NK	22.0±10%	70	300	12.9	2.4	0.55
OWA0805H-27NK	27.0±10%	70	300	14.5	1.6	0.55
OWA0805H-33NK	33.0±10%	70	300	18.7	1.6	0.5
OWA0805H-39NK	39.0±10%	70	300	25.7	1.5	0.38
OWA0805H-47NK	47.0±10%	70	300	34.5	1.5	0.32
OWA0805H-56NK	56.0±10%	70	300	38.4	1.3	0.32
OWA0805H-68NK	68.0±10%	70	300	42.2	1.3	0.32

Note:

1)Please contact sales if you want to custom air coil or antenna by sales@owolff.com

➤ **ELECTRICAL CHARATERISTICS OF OWA1008H Circle Air Coil**

OW P/N Size: 3.2x1.9x2.2mm	Inductance (nH)	Q Min.	Test Frequency (MHz).	DCR (mΩ) Max.	SRF (GHZ) Min.	Irms (A) Max.
OWA1008H-6N8K	6.8±10%	80	300	4	3	1.2
OWA1008H-8N2K	8.2±10%	80	300	5	3	0.95



OWA1008H-10NK	10.0±10%	70	300	6	3	0.95
OWA1008H-12NK	12.0±10%	70	300	6.5	3	0.9
OWA1008H-15NK	15.0±10%	70	300	7.3	2.5	0.9
OWA1008H-18NK	18.0±10%	70	300	9.6	2.5	0.84
OWA1008H-22NK	22.0±10%	70	300	10.8	2.4	0.84
OWA1008H-27NK	27.0±10%	70	300	13.9	1.6	0.6
OWA1008H-33NK	33.0±10%	70	300	19.5	1.6	0.5
OWA1008H-39NK	39.0±10%	70	300	21.6	1.5	0.5
OWA1008H-47NK	47.0±10%	70	300	25.2	1.5	0.47
OWA1008H-56NK	56.0±10%	70	300	27.5	1.3	0.47
OWA1008H-68NK	68.0±10%	70	300	37.1	1.3	0.38
OWA1008H-82NK	82.0±10%	70	300	51.5	1	0.32
OWA1008H-R10K	100.0±10%	70	300	55.5	1	0.32
OWA1008H-R12K	120.0±10%	70	300	63.4	0.95	0.32

Note:

1) Please contact sales if you want to custom air coil or antenna by sales@owolff.com

