

OWFWI201209

Ferrite & Wire Wound Un-Shielded SMD Chip RF Inductor

GENERAL SPECIFICATIONS

- Operation Temp: -40°C to 105°C(Individual chip without packing, No include self-temperature rising)
- Storage ambient condition: 0-40°C and <70%
- Test Frequency : 2.5 -7.9 MHz,
- Test Voltage :50mV
- Resistance of soldering heating: 260°C for 10sec
- Temperature rising: 40°C typ. with I_{rms}
- Inductance will drop down 10% typ. at I_{sat} loading
- In compliance with RoHS & REACH directives

FEATURES

- Ferrite body Wire wound instruction
- Accurate dimensions, SMT process suitable
- Good pulling force after reflow soldering,
- Good for mechanical shocking and pressure
- Highly reliable in environment of temperature & humidity change
- Excellent Q characteristics

APPLICATIONS

- Mobile phones
- Video, Cameras, and others electric device
- Bluetooth module
- TWS earphone

➤ DIMENSIONS OF OWFWI201209 Ferrite & wire wound SMD chip RF Un-shielded inductor

OW Series	A (mm) (Inch)	B (mm) (Inch)	C (mm) (Inch)	D (mm) (Inch)	E (mm) (Inch)	H (mm) (Inch)	I (mm) (Inch)	J (mm) (Inch)	Remark
	Max.	Max.	Max	Typ.	Ref	Ref	Ref	Ref	Cross to Size
OWFWI201209	2.40 (0.094)	1.65 (0.065)	1.30 (0.051)	1.28 (0.050)	0.48 (0.019)	1.50 (0.070)	1.02 (0.040)	0.96 (0.038)	0805

➤ **CHARATERISTICS OF OWFWI201209 Ferrite & Wire Wound SMD Chip RF Un-shielded Inductor**

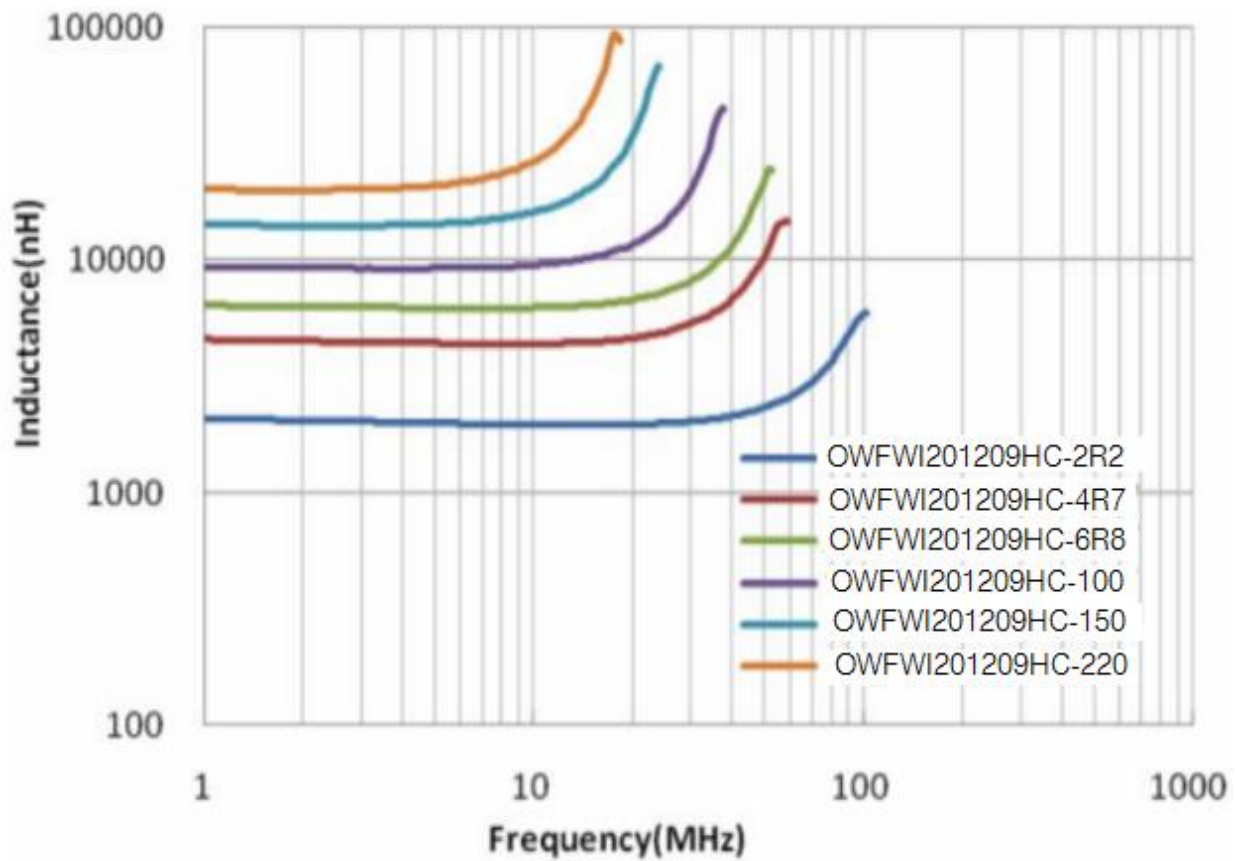
OW P/N Size: 2.4x1.65x1.3mm	Product ID	L (uH)	Inductance Tolerance	Q Typ.	Test Frequency (MHz)	DCR (Ω) Max	Isat (mA) Typ.	Irms (mA) Typ.	SRF (GHZ) Min.	Product Dot
OWFWI201209-R47	R47	0.47	K,M	14	7.9	0.12	1400	1500	850	Blue
OWFWI201209-R51	R51	0.51	K,M	14	7.9	0.12	1400	1500	850	Green
OWFWI201209-R56	R56	0.56	K,M	14	7.9	0.15	1200	1300	360	Violet
OWFWI201209-R68	R68	0.68	K,M	14	7.9	0.15	1200	1300	290	Gray
OWFWI201209-R82	R82	0.82	K,M	14	7.9	0.15	1100	1300	208	White
OWFWI201209-1R0	1R0	1	K,M	14	7.9	0.13	1100	1300	208	Black
OWFWI201209-1R2	1R2	1.2	K,M	14	7.9	0.16	960	1270	159	Red
OWFWI201209-1R5	1R5	1.5	K,M	14	7.9	0.17	920	1260	159	Brown
OWFWI201209-1R8	1R8	1.8	K,M	14	7.9	0.2	860	1080	112	Orange
OWFWI201209-2R2	2R2	2.2	K,M	13	7.9	0.22	740	1040	87	Red
OWFWI201209-2R7	2R7	2.7	K,M	13	7.9	0.25	680	1040	72	Yellow
OWFWI201209-3R3	3R3	3.3	K,M	12	7.9	0.28	620	1020	70	Orange
OWFWI201209-3R9	3R9	3.9	K,M	14	7.9	0.38	580	960	61	Green
OWFWI201209-4R7	4R7	4.7	K,M	14	7.9	0.43	520	840	51	Yellow
OWFWI201209-5R6	5R6	5.6	K,M	12	7.9	0.5	480	800	47	Blue
OWFWI201209-6R8	6R8	6.8	K,M	14	7.9	0.68	420	700	46	Green
OWFWI201209-8R2	8R2	8.2	K,M	13	7.9	0.73	400	680	33	Violet
OWFWI201209-100	100	10	J,K,M	14	2.5	0.85	360	560	31	Blue
OWFWI201209-150	150	15	J,K,M	15	2.5	1.4	300	380	28	Violet
OWFWI201209-180	180	18	J,K,M	15	2.5	1.5	260	360	22	White
OWFWI201209-220	220	22	J,K,M	15	2.5	1.76	240	340	20	Gray
OWFWI201209-330	330	33	J,K,M	15	2.5	2.35	200	300	17	White
OWFWI201209-390	390	39	J,K,M	14	2.5	3.35	180	290	15	Brown
OWFWI201209-470	470	47	J,K,M	14	2.5	3.4	160	280	15	Black
OWFWI201209-560	560	56	J,K,M	14	2.5	4.42	150	240	10	Yellow
OWFWI201209-680	680*	68	J,K,M	14	2.5	4.45	140	240	10	Brown
OWFWI201209-820	820	82	J,K,M	14	2.5	7.5	100	180	10	Orange
OWFWI201209-101	101	100	J,K,M	10	1	7.5	100	180	9	Red
OWFWI201209-111	111	110	J,K,M	10	1	9	90	155	8	Orange
OWFWI201209-121	121	120	J,K,M	12	1	10	90	150	8	Brown
OWFWI201209-221	221	220	J,K,M	8	1	23.1	70	120	4	Blue

Note:

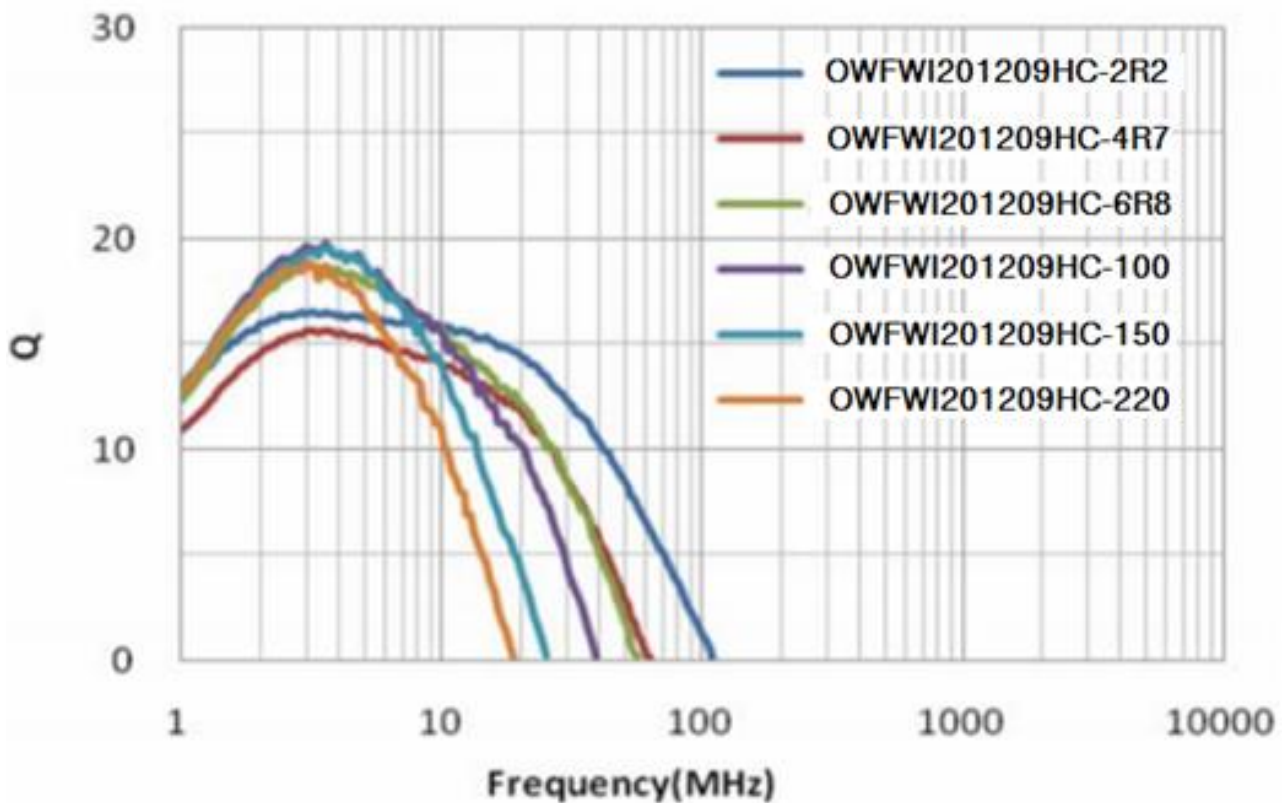
- 1) Please describe inductance tolerance when you order it.
- 2) Inductance tolerance: J=±5%, K=±10%, M=±20%
- 3) Please contact sales if your requirement is beyond the list by sales@owloff.com
- 4) Rising 40°C from 25°C ambient with Irms current



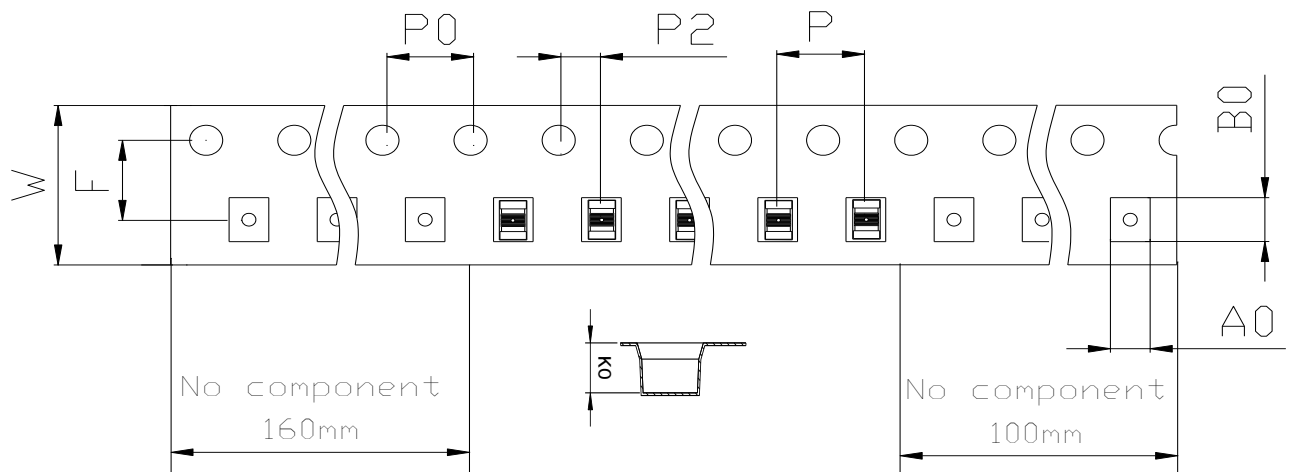
➤ L Vs. Freq. Curve OF OWFWI201209 Ferrite & Wire Wound SMD Chip RF Un-shielded Inductor



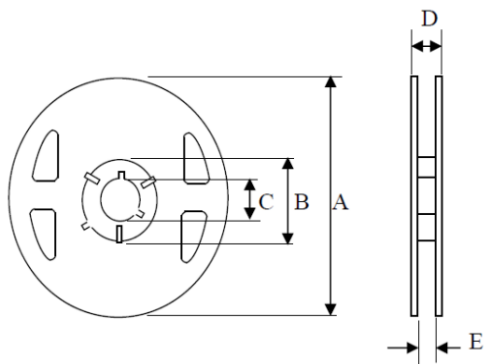
➤ Q Vs. Freq. Curve OF OWFWI201209 Ferrite & Wire Wound SMD Chip RF Un-shielded Inductor



➤ **PACKAGING OF OWFWI201209 Ferrite & Wire Wound SMD Chip RF Un-shielded Inductor**



OW P/N	W	A0	B0	K0	P	P0	P2	F
OWFWI201209	8.00	1.80	2.45	1.45	4.00	2.00	2.00	3.50



OW P/N	A	B	C	D	E	Reel(Pcs)
OWCW1201209	180	60.0	13.0	14.4	8.40	2000

