



Flat Wire High Current POWER INDUCTORS

SEH series | SQH series | SCH series
Assembly Type | Multi Dimension | SMT & THT



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Electronial Characteristics :

SCH1050 series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I_{sat} (A) Max.	I_{rms} (A) Max.
SCH1050-161MT	0.16 \pm 20%	0.6	0.5	58.0	23.0
SCH1050-401MT	0.4 \pm 20%	0.9	0.7	37.0	21.2
SCH1050-721MT	0.72 \pm 20%	1.5	1.3	35.0	18.4
SCH1050-122MT	1.2 \pm 20%	2.3	2.0	25.0	18.2
SCH1050-182MT	1.8 \pm 20%	4.0	3.1	18.0	15.2
SCH1050-242MT	2.4 \pm 20%	5.5	4.2	17.0	12.2
SCH1050-332MT	3.3 \pm 20%	6.8	5.8	15.0	11.4
SCH1050-422MT	4.2 \pm 20%	8.2	7.0	14.0	10.6
SCH1050-552MT	5.5 \pm 20%	11.9	9.0	12.0	9.3
SCH1050-652MT	6.5 \pm 20%	14.4	11.0	10.0	7.3
SCH1050-782MT	7.8 \pm 20%	15.7	12.7	9.5	7.1
SCH1050-103MT	10.0 \pm 20%	18.7	16.8	8.5	6.5
SCH1050-163MT	16.0 \pm 20%	39.7	32.3	6.5	4.4

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0Adc, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \cong 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20°C ambient.
4. All test data is referenced to 20°C ambient.
5. Rated current: Isat or Irms, whichever is smaller.

SCH1085 series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I_{sat} (A) Max.	I_{rms} (A) Max.
SCH1085-681MT	0.68 \pm 20%	1.46	1.22	>100	28.0
SCH1085-102MT	1.0 \pm 20%	1.75	1.46	60.0	27.5
SCH1085-152MT	1.5 \pm 20%	2.50	2.09	43.2	21.0
SCH1085-222MT	2.2 \pm 20%	3.37	2.81	35.0	18.0
SCH1085-332MT	3.3 \pm 20%	4.10	3.42	18.5	17.0
SCH1085-472MT	4.7 \pm 20%	5.05	4.21	13.0	15.0
SCH1085-862MT	8.6 \pm 20%	9.90	8.25	11.0	11.8
SCH1085-103KT	10.0 \pm 10%	11.3	9.42	10.2	10.2
SCH1085-153KT	15.0 \pm 10%	15.5	14.1	8.5	7.8
SCH1085-223KT	22.0 \pm 10%	25.2	22.9	6.8	5.8
SCH1085-333KT	33.0 \pm 10%	37.0	33.7	6.4	4.8
SCH1085-473KT	47.0 \pm 10%	55.0	50.0	5.4	3.7

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0Adc, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \cong 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20°C ambient.
4. All test data is referenced to 20°C ambient.
5. Rated current: Isat or Irms, whichever is smaller.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others). Please kindly contact K-WELL as follows.

Electronial Characteristics :

SCH1335 series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I_{sat} (A) Max.	I_{rms} (A) Max.
SCH1335-251MT	0.25 \pm 20%	0.9	0.7	60.0	22.1
SCH1335-681MT	0.68 \pm 20%	1.9	1.7	40.0	20.3
SCH1335-122MT	1.2 \pm 20%	3.4	3.1	28.0	15.7
SCH1335-182MT	1.8 \pm 20%	6.6	5.4	22.0	12.4
SCH1335-222MT	2.2 \pm 20%	6.6	5.4	18.0	12.4
SCH1335-332MT	3.3 \pm 20%	9.3	8.0	14.0	10.9

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0Adc, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \cong 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20°C ambient.
4. All test data is referenced to 20°C ambient.
5. Rated current: Isat or Irms, whichever is smaller.

SCH1350 series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I_{sat} (A) Max.	I_{rms} (A) Max.
SCH1350-191MT	0.19 \pm 20%	0.60	0.50	60.0	26.2
SCH1350-471MT	0.47 \pm 20%	1.10	0.90	50.0	23.0
SCH1350-901MT	0.90 \pm 20%	1.80	1.50	28.0	20.6
SCH1350-142MT	1.4 \pm 20%	2.80	2.50	26.0	18.6
SCH1350-232MT	2.3 \pm 20%	4.30	3.50	17.0	15.6
SCH1350-322MT	3.2 \pm 20%	6.10	4.90	15.0	14.1
SCH1350-482MT	4.8 \pm 20%	12.10	7.90	13.0	9.5
SCH1350-602MT	6.0 \pm 20%	14.4	11.8	11.5	9.1
SCH1350-822MT	8.2 \pm 20%	15.6	11.8	11.0	8.2
SCH1350-103MT	10.0 \pm 20%	16.2	14.2	10.0	8.0

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0Adc, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \cong 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20°C ambient.
4. All test data is referenced to 20°C ambient.
5. Rated current: Isat or Irms, whichever is smaller.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others). Please kindly contact K-WELL as follows.

Electronial Characteristics :

SCH1365 series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I _{sat} (A) Max.	I _{rms} (A) Max.
SCH1365-201MT	0.20 \pm 20%	0.45	0.35	65.0	27.5
SCH1365-471MT	0.47 \pm 20%	0.8	0.65	50.0	26.8
SCH1365-821MT	0.82 \pm 20%	1.1	0.94	35.0	25.0
SCH1365-132MT	1.3 \pm 20%	2.1	1.6	25.0	21.6
SCH1365-202MT	2.0 \pm 20%	3.0	2.4	22.0	19.2
SCH1365-282MT	2.8 \pm 20%	3.8	3.1	17.5	15.3
SCH1365-372MT	3.7 \pm 20%	5.6	4.7	16.0	13.7
SCH1365-472MT	4.7 \pm 20%	7.1	5.3	15.0	11.0
SCH1365-602MT	6.0 \pm 20%	8.7	7.1	14.0	10.6
SCH1365-732MT	7.3 \pm 20%	9.5	7.8	12.0	11.2
SCH1365-922MT	9.2 \pm 20%	11.0	9.7	10.5	10.4
SCH1365-113MT	11.3 \pm 20%	13.5	11.6	9.5	10.0
SCH1365-133MT	13.0 \pm 20%	15.9	13.9	9.0	8.8
SCH1365-153MT	15.4 \pm 20%	17.0	15.7	8.0	8.4
SCH1365-183MT	18.0 \pm 20%	25.3	19.0	7.5	6.4
SCH1365-223MT	22.0 \pm 20%	28.4	22.9	6.5	5.4
SCH1365-333MT	33.0 \pm 20%	35.1	31.2	5.5	5.2

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0A_{dc}, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \leq 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20 $^{\circ}\text{C}$ ambient.
4. All test data is referenced to 20 $^{\circ}\text{C}$ ambient.
5. Rated current: Isat or Irms, whichever is smaller.

SCH1890B series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I _{sat} (A) Max.	I _{rms} (A) Max.
SCH1890B-562MT	0.56 \pm 20%	3.4	3.0	28.5	22.6
SCH1890B-762MT	0.76 \pm 20%	4.3	3.6	24.7	17.8
SCH1890B-103KT	10.0 \pm 10%	7.9	6.7	18.5	14.6
SCH1890B-153KT	15.0 \pm 10%	10.4	8.9	14.0	12.5
SCH1890B-223KT	22.0 \pm 10%	16.8	15.0	11.0	10.1
SCH1890B-333KT	33.0 \pm 10%	24.9	21.8	9.0	7.1
SCH1890B-473KT	47.0 \pm 10%	38.5	35.6	7.0	6.1

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0A_{dc}, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \leq 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20 $^{\circ}\text{C}$ ambient.
4. All test data is referenced to 20 $^{\circ}\text{C}$ ambient.
5. Rated current: Isat or Irms, whichever is smaller.

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Electronial Characteristics :

SCH1890 series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I_{sat} (A) Max.	I_{rms} (A) Max.
SCH1890-821MT	0.82 \pm 20%	0.62	0.54	65.0	36.8
SCH1890-132MT	1.3 \pm 20%	1.08	0.9	62.0	30.3
SCH1890-192MT	1.9 \pm 20%	1.4	1.2	52.0	29.1
SCH1890-262MT	2.6 \pm 20%	1.8	1.5	50.0	26.6
SCH1890-352MT	3.5 \pm 20%	3.6	2.2	37.0	20.1
SCH1890-452MT	4.5 \pm 20%	3.9	2.5	35.0	18.2
SCH1890-562MT	5.6 \pm 20%	4.3	2.9	33.0	17.5
SCH1890-682MT	6.8 \pm 20%	4.7	4.0	27.0	15.9
SCH1890-103MT	10.0 \pm 20%	7.9	6.0	21.5	13.9

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0Adc, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \cong 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20°C ambient.
4. All test data is referenced to 20°C ambient.
5. Rated current: Isat or Irms, whichever is smaller.

SCH2212B series

Part Number	Inductance (μH) ^①	DC resistance (m Ω) Max.		DC saturation current ^②	Heat rating current ^③
		Max.	Typ.	I_{sat} (A) Max.	I_{rms} (A) Max.
SCH2212B-332MT	3.3 \pm 20%	2.0	1.8	45.0	26.2
SCH2212B-682MT	6.8 \pm 20%	2.6	2.3	31.0	25.8
SCH2212B-822MT	8.2 \pm 20%	3.1	2.7	30.0	22.9
SCH2212B-103KT	10.0 \pm 10%	3.9	3.5	26.0	19.5
SCH2212B-123KT	12.0 \pm 10%	5.0	4.1	25.0	17.6
SCH2212B-223KT	22.0 \pm 10%	8.1	7.0	18.0	13.7
SCH2212B-333KT	33.0 \pm 10%	15.2	13.4	15.0	10.3
SCH2212B-473KT	47.0 \pm 10%	22.1	19.8	12.0	8.3
SCH2212B-683KT	68.0 \pm 10%	31.4	26.6	9.5	7.1
SCH2212B-823KT	82.0 \pm 10%	35.0	30.4	8.5	6.2

* Custom design are available upon requested.

1. Inductance measured at: 100kHz, 1Vrms, 0Adc, on an Agilent/HP4284A LCR meter or equivalent.
2. Isat current : DC current at which the inductance drops \cong 30% from its value without current.
3. Heat rating current : DC current that causes the temperature rise ($\Delta t=40^{\circ}\text{C}$) from 20°C ambient.
4. All test data is referenced to 20°C ambient.
5. Rated current: Isat or Irms, whichever is smaller.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others). Please kindly contact K-WELL as follows.



Features :

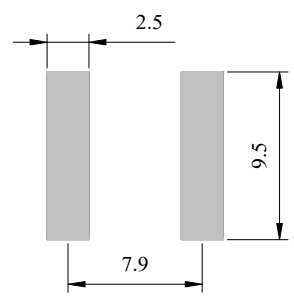
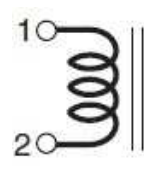
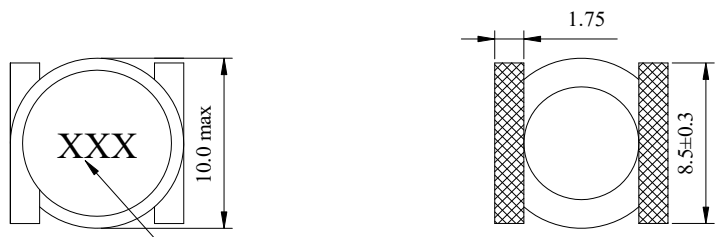
- ◆ High current, high frequency power inductors.
- ◆ Excellent Q factors – up to 230 at 400 MHz.
- ◆ Excellent solerability.
- ◆ Current handling as high as 26 Amps.
- ◆ Maximum part temperature +155°C (ambient + temp rise).

Environmental data :

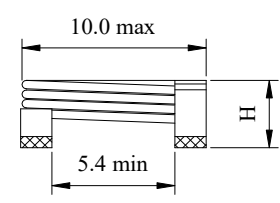
- ◆ Operating temperature: –40 °C up to +150 °C, including coil's self temperature rise).
- ◆ Storage temperature: –40 °C up to +125 °C.
- ◆ RoHS ,REACH compliance ,Halogen free.

Dimensions & Shape : [mm]

PAD LAYOUT



Inductance code



Part Number	H
SAH1010-23N	3.6
SAH1010-46N	4.1
SAH1010-79N	4.8
SAH1010-111N	5.6
SAH1010-141N	6.1

Electronial Characteristics :

Part Number ^①	L ₀ Inductance ^② ±20% (nH)	Q typ ^③	Q test Frequency (MHz)	SRF typ ^④ (MHz)	DCR (mOhm)		I _{rms} (A) ^⑤	
					typ	max	20°C rise	40°C rise
SAH1010-23NM	23.5	95	100	923	1.05	1.20	18.0	26.0
SAH1010-46NM	46.5	150	100	526	1.50	1.62	17.9	25.5
SAH1010-79NM	79.0	135	50	386	1.95	2.11	17.8	25.0
SAH1010-111M	111.0	150	50	382	2.53	2.73	15.7	22.0
SAH1010-141M	146.0	140	50	433	3.08	3.33	14.1	19.3

* Custom design are available upon requested.

1. Part number definition: SAH1010-yyyM, SAH1010=products type and size, yyy=inductance value in nH, M=inductance tolerance(±20%).
2. Inductance measured at 1.0 MHz, 0.1 V_{rms}, 0A using an HP4291A impedance analyzer or equivalents.
3. Q measured at the specified frequency using HP4291A or equivalent.
4. SRF measured using HP 8753 network analyzer or equivalent.
5. Rms current that causes the specified temperature rise from 25 °C ambiment, this information is for reference only and does not represent absolute maximum rating
6. All test data is referenced to 25 °C ambient.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability,and others). Please kindly contact K-WELL as follows.



Features :

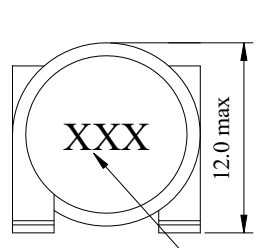
- ◆ High current, high frequency power inductors.
- ◆ Excellent Q factors – up to 225 at 250 MHz.
- ◆ Excellent solerability.
- ◆ Current handling as high as 57 Amps.
- ◆ Maximum part temperature +155°C (ambient + temp rise).

Environmental data :

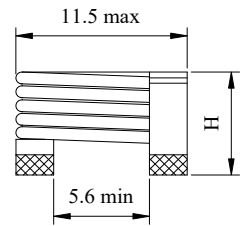
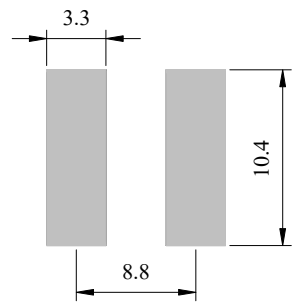
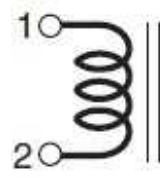
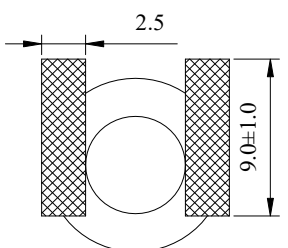
- ◆ Operating temperature: –40 °C up to +150 °C, including coil's self temperature rise).
- ◆ Storage temperature: –40 °C up to +125 °C.
- ◆ RoHS ,REACH compliance ,Halogen free.

Dimensions & Shape : [mm]

PAD LAYOUT



Inductance code



Part Number	H
SAH1212-22N	6.6
SAH1212-42N	7.6
SAH1212-66N	8.8
SAH1212-90N	10.4
SAH1212-111	11.3

Electronial Characteristics :

Part Number ^①	L ₀ Inductance ^② ±20% (nH)	Q typ ^③	Q test Frequency (MHz)	SRF typ ^④ (MHz)	DCR (mOhm)		I _{rms} (A) ^⑤	
					typ	max	20°C rise	40°C rise
SAH1212-22NM	22.0	200	100	918	0.48	0.55	40.5	57.0
SAH1212-42NM	42.0	195	50	557	0.70	0.77	38.0	52.0
SAH1212-66NM	66.0	200	50	480	0.90	0.99	35.0	48.0
SAH1212-90NM	90.0	175	50	444	1.10	1.21	33.0	45.0
SAH1212-111M	117.0	165	50	399	1.30	1.43	32.0	44.0

* Custom design are available upon requested.

1. Part number definition: SAC1212-yyyM, SAC1212=products type and size, yyy=inductance value in nH , M=inductance tolerance(±20%).
2. Inductance measured at 1.0 MHz, 0.1 V_{rms}, 0A using an HP4291A impedance analyzer or equivalents.
3. Q measured at the specified frequency using HP4291A or equivalent.
4. SRF measured using HP 8753 network analyzer or equivalent.
5. Rms current that causes the specified temperature rise from 25 °C ambiment, this information is for reference only and does not represent absolute maximum rating
6. All test data is referenced to 25 °C ambient.

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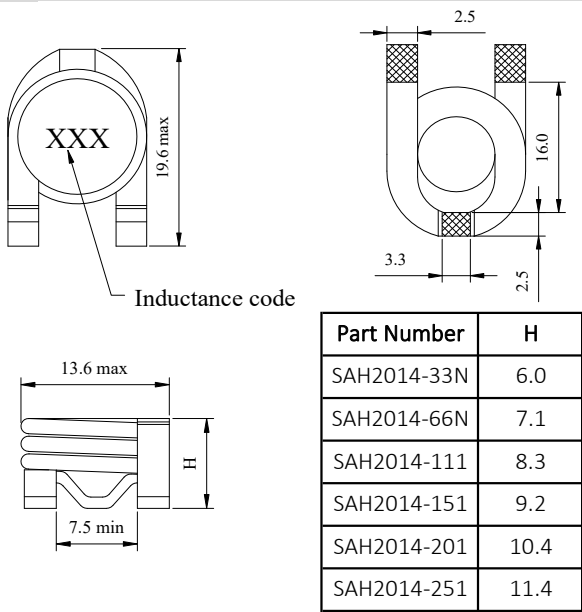
Features :

- ◆ High current, high frequency power inductors.
- ◆ Excellent Q factors – up to 300 at 230 MHz.
- ◆ Excellent solerability.
- ◆ Current handling as high as 43 Amps.
- ◆ Maximum part temperature +155°C (ambient + temp rise).

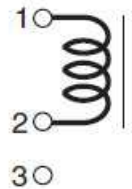
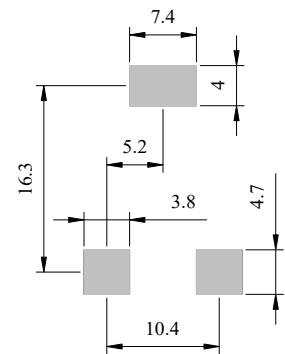
Environmental data :

- ◆ Operating temperature: –40 °C up to +150 °C, including coil's self temperature rise).
- ◆ Storage temperature: –40 °C up to +125 °C.
- ◆ RoHS ,REACH compliance ,Halogen free.

Dimensions & Shape : [mm]



PAD LAYOUT



Caution:
Terminal 3 is provided for mounting stability only. This terminal is connected to the winding of the inductor and must not be connected to ground or any circuitry.

Electronial Characteristics :

Part Number ①	L ₀ Inductance ② ±20% (nH)	Q typ ③	Q test Frequency (MHz)	SRF typ ④ (MHz)	DCR (mOhm)		I _{rms} (A) ⑤	
					typ	max	20°C rise	40°C rise
SAH2014-33NM	33	230	100	620	0.63	0.74	32.5	43.0
SAH2014-66NM	66	200	50	413	0.90	1.00	31.5	42.5
SAH2014-111M	108	210	50	320	1.20	1.34	31.0	42.0
SAH2014-151M	155	205	50	296	1.44	1.60	29.4	39.7
SAH2014-201M	202	200	50	262	1.70	1.82	26.3	35.8
SAH2014-251M	257	200	50	230	1.94	2.15	24.9	34.5

* Custom design are available upon requested.

1. Part number definition: SAC2014-yyyM, SAC2014=products type and size, yyy=inductance value in nH, M=inductance tolerance(±20%).
2. Inductance measured at 1.0 MHz, 0.1 Vrms, 0A using an HP4291A impedance analyzer or equivalents.
3. Q measured at the specified frequency using HP4291A or equivalent.
4. SRF measured using HP 8753 network analyzer or equivalent.
5. Rms current that causes the specified temperature rise from 25 °C ambiment, this information is for reference only and does not represent absolute maximum rating
6. All test data is referenced to 25 °C ambient.

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